



P.O. Box 3210
Matthews, NC 28106



HEH Job: 3136

SECTIONS AND DETAILS

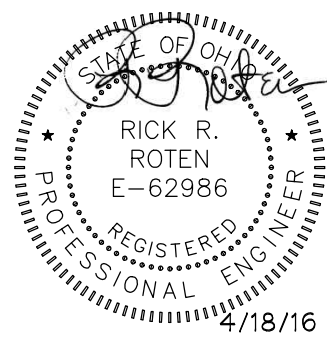
SHEET NUMBER

S3

RICK R. ROTEN, PE
7909 SKYE LOCHS DRIVE
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STORE PLANNING Inc
3080 SENNA DRIVE
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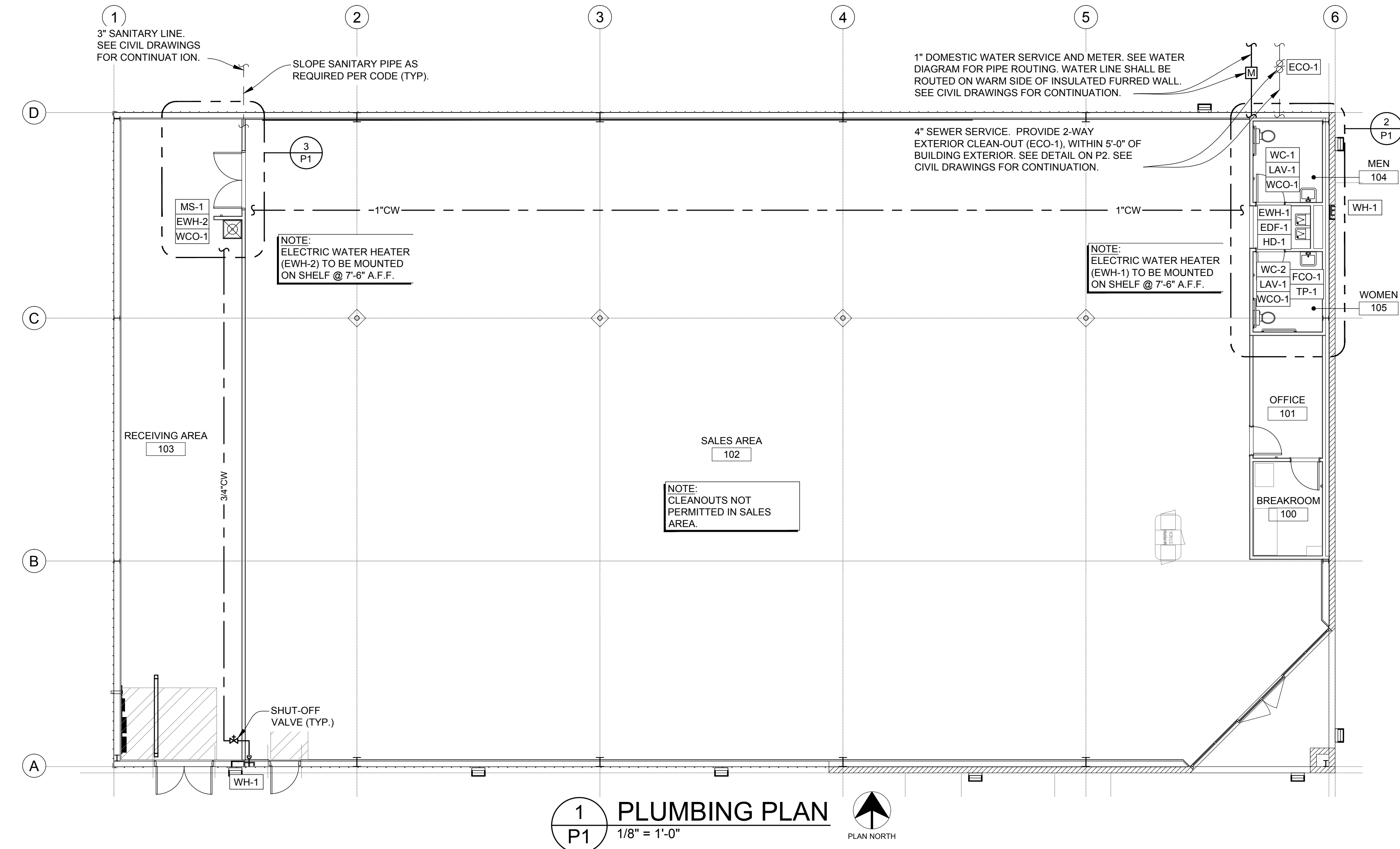
#	DATE	REVISION

DOLLAR GENERAL #17434
499 LONG STREET
ASHVILLE, OHIO 43103

DOLLAR GENERAL

PLUMBING PLANS AND SCHEDULES

SPI Client	DATE
16137	04-18-16
SHEET NUMBER	
P1	



MARK	DESCRIPTION	HW CONNECTION	CW CONNECTION	WASTE CONNECTION	VENT CONNECTION	REMARKS
LAV-1	ADA LAVATORY	1/2"	1/2"	2"	1-1/2"	20"x18" WALL HUNG ADA LAVATORY W/ FRONT OVERFLOW, CONCEALED HANGERS & 4" CENTERS. AMERICAN STANDARD LUCERNE #0355.012 OR EQUAL. FAUCET SHALL BE POLISHED CHROME-PLATED CAST BRASS BODY WITH 4" SPOUT, 4" BRASS WRIST BLADE, 0.5 GPM SPRAY AND POP-UP DRAIN. AMERICAN STANDARD MONTERREY #5501.170 WITH #V05 AERATOR OR EQUAL. INSULATE EXPOSED DRAIN & WATER PIPES WITH TRUEBRO LAV GUARD KIT #102 E-Z. PROVIDE SUPPLIES, STOP VALVES AND P-TRAP.
WC-1	ADA WATER CLOSET	-	1/2"	4"	2"	FLOOR MOUNTED ADA VITREOUS CHINA ELONGATED 1.6 FLUSH GALLON CLOSE COUPLED TWO PIECE SIPHON JET WATER CLOSET, FLUSH TANK WITH 12" ROUGH-IN. AMERICAN STANDARD CHAMPION 4 "RIGHT HEIGHT" #2002.014 OR EQUAL. PROVIDE STOP VALVE, FLEXIBLE SUPPLY LINE, OPEN FRONT SEAT (AMERICAN STANDARD #5901.100 OR EQUAL).
WC-2	ADA WATER CLOSET RIGHT-HAND TRIP LEVER	-	1/2"	4"	2"	FLOOR MOUNTED ADA VITREOUS CHINA ELONGATED 1.6 FLUSH GALLON CLOSE COUPLED TWO PIECE SIPHON JET WATER CLOSET, FLUSH TANK WITH 12" ROUGH-IN. AMERICAN STANDARD CHAMPION 4 "RIGHT HEIGHT" #2002.014 OR EQUAL WITH ALTERNATE TANK ASSEMBLY #4266.804 (RIGHT HAND TRIP LEVER). PROVIDE STOP VALVE, FLEXIBLE SUPPLY LINE, OPEN FRONT SEAT (AMERICAN STANDARD #5901.100 OR EQUAL).
EWH-1, 2	ELECTRIC WATER HEATER	3/4"	3/4"	-	-	PROVIDE 10 GALLON ELECTRIC WATER HEATER, 1.65KW @ 120V WITH MANUFACTURER SUPPLIED TEMPERATE AND PRESSURE RELIEF VALVE. (A.O. SMITH #EJC-10, OR EQUAL). SET WATER HEATER TEMPERATURE AT 110°F MAXIMUM. PROVIDE THERMAL EXPANSION TANK. (AMTROL THERM-X-TROL ST-12, OR EQUAL). EXPANSION TANK SUPPORT: IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ADEQUATE SUPPORT FOR THE EXPANSION TANK. SUPPORT TO ADJACENT WALL OR FROM EXISTING STRUCTURE ABOVE WITH UNISTRUT. DO NOT SUPPORT FROM PIPE ALONE. PROVIDE DRAIN PAN UNDER WATER HEATERS. PROVIDE SEISMIC STRAPPING ON WATER HEATERS. TERMINATE (EWH-1) DRAIN LINE IN HUB DRAIN (HD-1) AND (EWH-2) DRAIN LINE IN MOP SINK (MS-1). PROVIDE FULL SIZE T&P RELIEF LINE, REFER TO WATER HEATER DETAIL ON SHEET P2 FOR ADDITIONAL INFORMATION.
MS-1	MOP SINK	3/4"	3/4"	3"	2"	24" X 24" MOLDED STONE MOP SERVICE BASIN, WITH 3" DRAIN, FIAT #MSB-2424 OR EQUAL. PROVIDE SERVICE FAUCET WITH PAIL HOOK & INTEGRAL VACUUM BREAKER, MOP BRACKET, FLAT STAINLESS STEEL STRAINER AND HOSE & BRACKET. FIAT #830 AA, 889 CC, 1453 BB & 832 AA OR EQUAL. PROVIDE SUPPLIES AND P-TRAP.
EDF-1	BARRIER FREE ELECTRIC DRINKING FOUNTAIN	1/2"	-	2"	1-1/2"	TWO-STATION, WALL MOUNTED, ELECTRIC DRINKING FOUNTAIN, BARRIER-FREE ACCESS (ADA), FRONT ONLY EASY TOUCH CONTROL, HIGH UNIT ON RIGHT. ELKAY #EZTLRDDC OR EQUAL. PROVIDE SUPPLY, STOP VALVE & P-TRAP. PROVIDE CANE APRON AS REQUIRED.
WH-1	WALL HYDRANT	3/4"	-	-	-	FREEZE-PROOF WALL HYDRANT WITH BRONZE BODY & ANTI-SIPHON VACUUM BREAKER, BOX AND LOCKING COVER. PROVIDE WITH HOSE CONNECTION AND MOUNT AT 24" ABOVE GRADE. WOODFORD #865 OR EQUAL.
WCO-1	WALL CLEAN-OUT	-	-	AS SHOWN ON PLANS	-	SIZE & INSTALL AS SHOWN ON PLANS. JOSAM, ZURN OR EQUAL.
HD-1	HUB DRAIN	1/2"	-	3"	2"	PROVIDE 3" PIPE SIZE WITH FUNNEL AND 1/2"Ø TRAP PRIMER CONNECTION. JOSAM, ZURN OR EQUAL.
TP-1	TRAP PRIMER	-	1/2"	-	-	PROVIDE PRESSURE DROP ACTIVATED BRASS TRAP SEAL PRIMER, WITH REMOVABLE FILTER SCREEN. MIFAB #M2-500. NO SUBSTITUTIONS. PROVIDE AIR GAP FITTING. MIFAB #MIGAP. NO SUBSTITUTIONS. PROVIDE DISTRIBUTION UNIT, WHERE TRAP PRIMER SERVES MULTIPLE FLOOR DRAINS, MIFAB #MI-DU-500. NO SUBSTITUTIONS.
ECO-1	EXTERIOR CLEAN-OUT	-	-	4"	-	PROVIDE TRAFFIC RATED, 2-WAY, EXTERIOR CLEANOUT. TYLER PIPE #003519, OR EQUAL.
FCO-1	FLOOR CLEAN-OUT	-	-	AS SHOWN ON PLANS	-	PROVIDE ADJUSTABLE FLOOR CLEANOUT WITH WATERTIGHT TAPERED THREADED PLUG AND ROUND SCORRIATED SECURED TOP, ADJUSTABLE TO FINISHED FLOOR. SIZE & INSTALL AS SHOWN ON PLANS. JOSAM, ZURN OR EQUAL.

SYMBOL LEGEND	
— SAN —	SANITARY PIPING
— SAN BLW. —	SANITARY PIPING BELOW
— V —	VENT PIPING
— CW —	COLD WATER PIPING
— HW —	HOT WATER PIPING
⌵	SHUT-OFF VALVE
⌵	BACKFLOW PREVENTER
⌵	PRESSURE REGULATOR
⌵	WALL CLEANOUT
⌵	FREEZE-PROOF HOSE BIBB
⌵	2-WAY EXTERIOR CLEANOUT
⌵	FLOOR CLEANOUT

3 ENLARGED STOCKROOM PLAN 3/8" = 1'-0"

SANITARY INVERT NOTE:
REQUIRED INVERT AT POINT OF CONNECTION (5 FT FROM EXTERIOR WALL) TO EXISTING SEWER SERVICE IS APPROXIMATELY 2'-0" BELOW FINISHED FLOOR BASED ON TOTAL LENGTH OF 'X' SLOPED AT 1/8" PER FT AND STARTING INVERT OF 18" BELOW FINISHED FLOOR. CONTRACTOR TO FIELD VERIFY THE INVERT AND LOCATION OF SANITARY LINE AS SHOWN ON CIVIL DRAWINGS.

NOTES:
1. REFER TO SHEET P2, FOR ROUTING OF DOMESTIC WATER, SANITARY SEWER AND SANITARY VENT PIPING.
2. PROVIDE TAMPER PROOF CABINET WITH ACCESS PANEL FOR BACKFLOW ASSEMBLY.
3. DOMESTIC WATER, SANITARY SEWER AND SANITARY VENT PIPE ROUTING ARE DIAGRAMMATIC ONLY, COORDINATE PIPE ROUTING WITH FIELD CONDITIONS. REFER TO PIPING DIAGRAMS ON SHEET P2.

GENERAL PLUMBING NOTES

- PROVIDE ALL BACKING, SUPPORTS AND CARRIERS FOR FIXTURES.
- CONTRACTOR SHALL PROVIDE APPROVED ACCESS DOORS IN FRAMED HOLES FOR ALL VALVES AND TRAP PRIMERS WHICH MUST BE LOCATED IN INACCESSIBLE LOCATIONS.
- ALL WATER PIPING SHALL BE PITCHED IN DIRECTION OF FLOW TO ALLOW FOR SYSTEM DRAINING.
- INSTALL WATER MAIN SHUT-OFF VALVE UPSTREAM FROM PRESSURE REGULATOR.
- INSTALL WATER PRESSURE REGULATOR WHERE AVAILABLE UTILITY PRESSURE EXCEEDS 70 PSI. SET PRESSURE REGULATOR AT 65 PSI.
- PROVIDE BACKFLOW PREVENTER ASSEMBLY WITH TAMPER RESISTANT ACCESS CABINET PER LOCAL CODE.
- ROUTE WATER PIPING IN SALES AREA, OVERHEAD AS HIGH AS POSSIBLE.
- DRAIN, WASTE AND VENT LINES SHALL PASS INSPECTION UNDER HEAD OF WATER BY SYSTEM WITH WATER TO TOP OF HIGHEST VENT STACK.
- WATER LINES SHALL PASS INSPECTION OF FOUR (4) HOURS UNDER 150 PSI PRESSURE. BEFORE ANY USE OF SYSTEM IS MADE FOR DOMESTIC PURPOSES, IT SHALL BE DISINFECTED BY SLOWLY FILLING WITH WATER TO WHICH A DISINFECTING AGENT HAS BEEN INJECTED AT A RATE OF 50 P.P.M. OF CHLORINE, WHICH SHOULD BE ALLOWED TO STAND IN THE PIPING FOR AT LEAST 24 HOURS, AFTER WHICH TESTS FOR RESIDUAL CHLORINE SHALL SHOW NOT LESS THAN FIVE (5) P.P.M. OF RESIDUAL CHLORINE AT EVERY WATER OUTLET IN THE BUILDING. IF THE RESIDUAL IS LESS THAN FIVE PPM, THE DISINFECTION SHALL BE REPEATED UNTIL THE REQUIRED RESIDUAL IS OBTAINED AT EVERY OUTLET. AFTER REQUIRED RESIDUAL IS OBTAINED AT EVERY OUTLET, THE SYSTEM SHALL BE FLUSHED UNTIL THE CHLORINE LEVEL AT EVERY OUTLET IS REDUCED TO THAT OF INCOMING WATER SUPPLY.
- SEPTIC SYSTEM NOT ALLOWED WITHOUT WRITTEN APPROVAL BY DOLLAR GENERAL.
- HOLDING TANK SYSTEMS NOT ALLOWED.
- LIFT STATIONS ARE NOT ALLOWED WITHOUT WRITTEN APPROVAL BY DOLLAR GENERAL.
- CONTRACTOR RESPONSIBLE FOR ALL PUBLIC UTILITY CONNECTIONS.
- ALL PLUMBING MATERIALS SHALL COMPLY WITH CODE.
- REFER TO SHEET P2 FOR MATERIALS.

CIVIL ENGINEERING DESIGN COORDINATION NOTICE

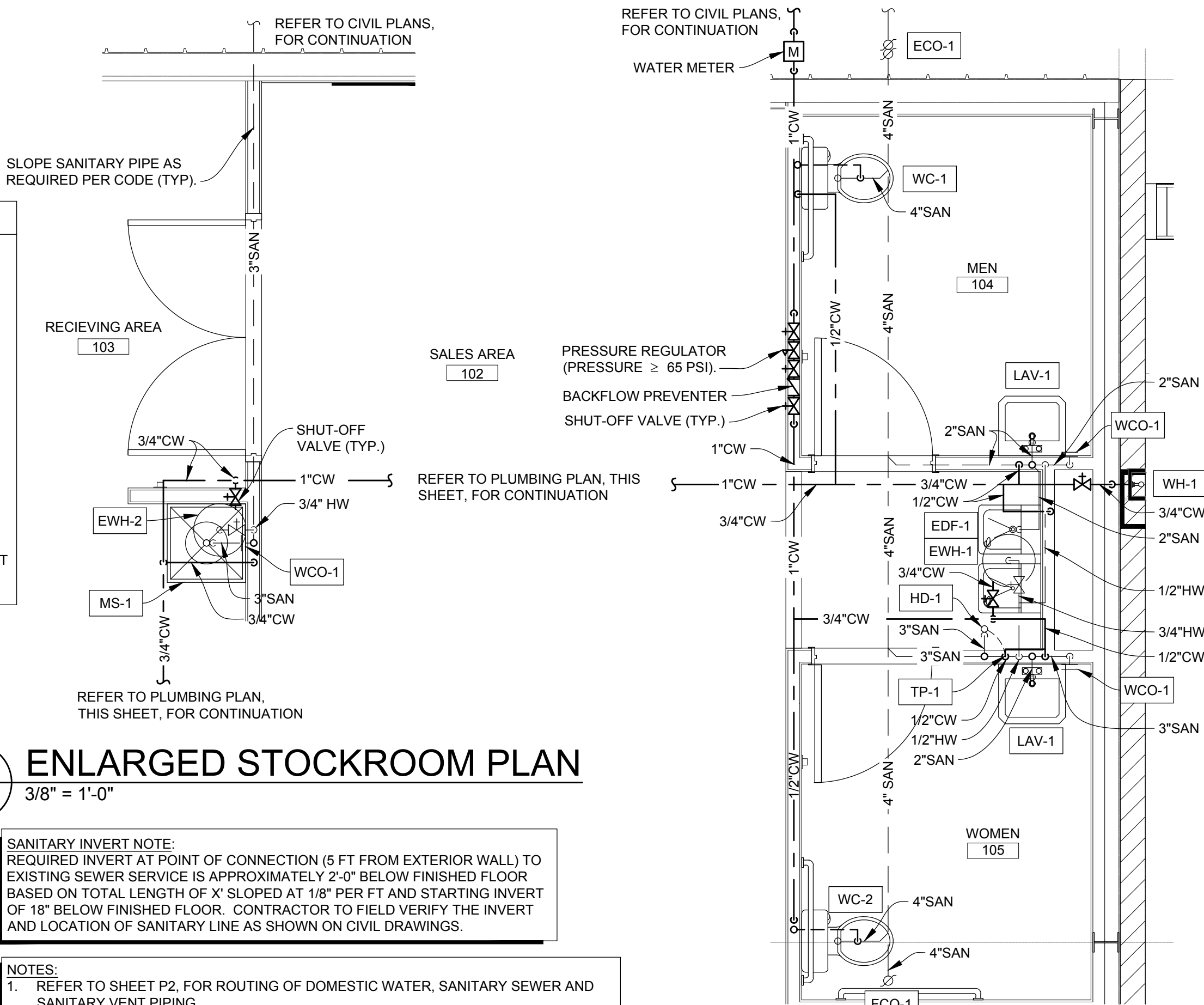
NOTICE TO ALL PARTIES HAVING AN INTEREST IN THIS CONSTRUCTION PROJECT.
1. CIVIL ENGINEERING FOR THIS PROJECT IS BEING PERFORMED BY OTHERS.
2. CONTRACTORS RELYING ON DOCUMENTS NOT COORDINATED WITH THE CIVIL ENGINEERING WORK SHALL DO SO AT THEIR OWN RISK.
3. COORDINATION WITH THE CIVIL ENGINEERING DOCUMENTS HAS BEEN COMPLETED ONLY AS SHOWN BELOW.

CIVIL ENGINEERING CONSULTANT:

CIVIL SHEET DWG. NO.	CIVIL SHEET DWG. TITLE	REV. NO.	REV. DATE	REV. NO.	REV. DATE	REV. NO.	REV. DATE
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
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COORDINATION CHECKED BY:

INITIAL	DATE	INITIAL	DATE	INITIAL	DATE
-	-	-	-	-	-



2 ENLARGED TOILET PLAN 3/8" = 1'-0"

STATE OF OHIO
 RICK R. ROTEN
 E-62986
 REGISTERED PROFESSIONAL ENGINEER
 4/18/16

DOLLAR GENERAL #17434
499 LONG STREET
ASHVILLE, OHIO 43103

SPI Client	DATE
16137	04-18-16
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P2	

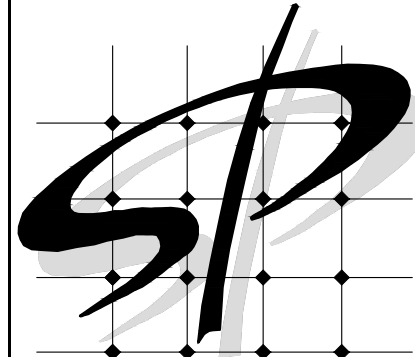


The diagram illustrates a sanitary sewer system layout. Key components include:

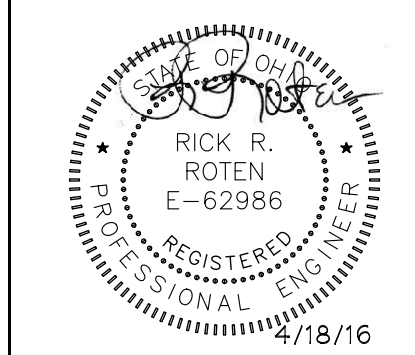
- Vents:** 4" VENT THRU WALL at the top left; 2" VENT THRU WALL at the bottom left.
- Clean-Outs:** ECO-1, WCO-1, WCO-2, FCO-1.
- Sinks and Toilets:** LAV-1, WC-1, HD-1, MS-1, WC-2.
- Pipes:** Various diameters shown (e.g., 4", 3", 2", 1-1/2").
- Notes:**
 - 4" SEWER SERVICE. PROVIDE 2 WAY EXTERIOR CLEAN-OUT (ECO-1), WITHIN 5'-0" OF BUILDING EXTERIOR. SEE CIVIL DRAWINGS FOR CONTINUATION.
 - 3" SANITARY LINE. SEE CIVIL DRAWINGS FOR CONTINUATION.
 - SLOPE SANITARY PIPE AS REQUIRED PER CODE (TYP).
- Sanitary Sewer Notes:**
 - EW-1 TO DRAIN INTO HUB DRAIN (HD-1).
 - EW-2 TO DRAIN INTO MOP SINK (MS-1).



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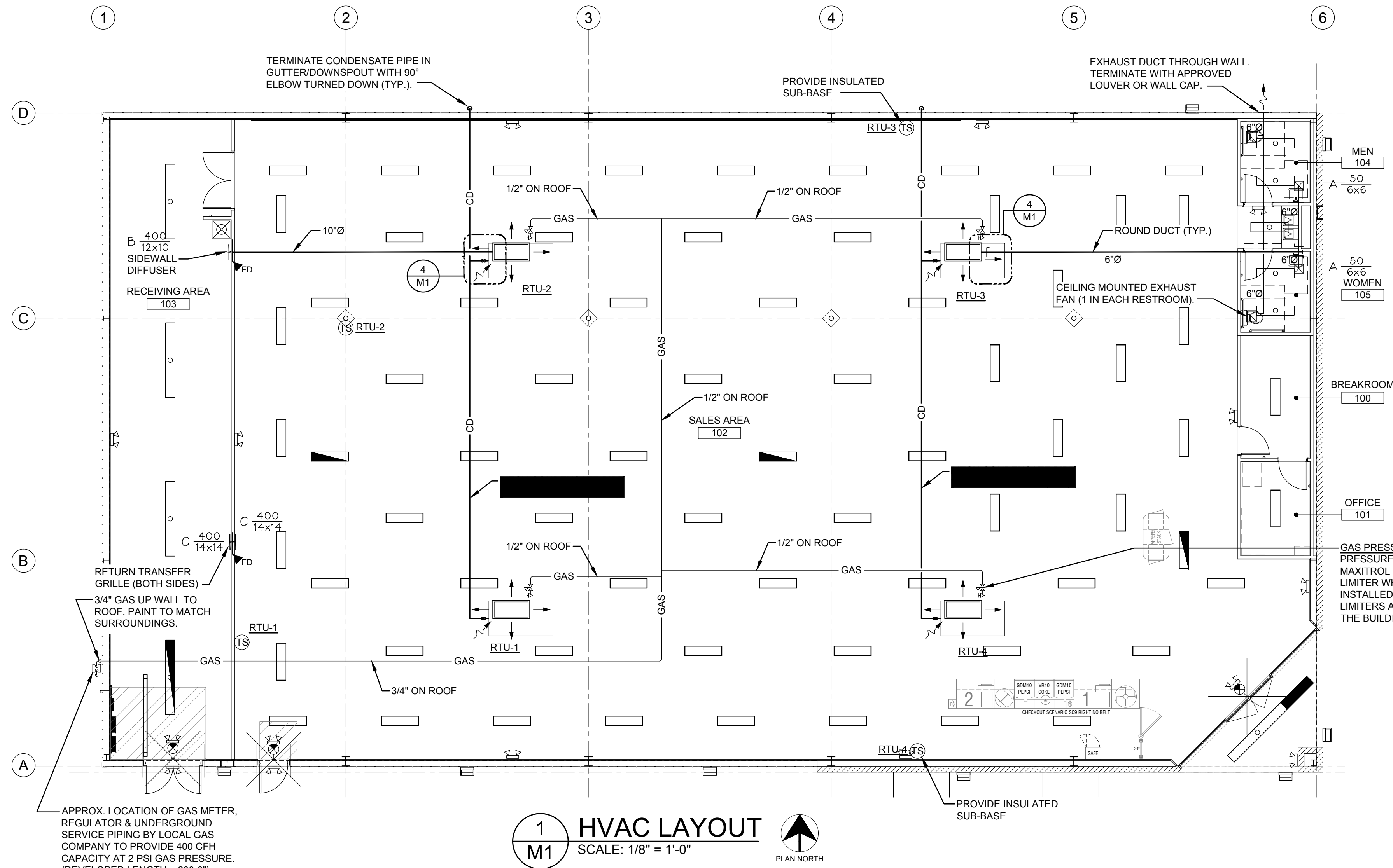
MECHANICAL LAYOUT

SHEET TITLE

SPI Client	DATE
16137	04-18-16

SHEET NUMBER

M1



SYMBOL LEGEND	
	EXHAUST FAN
	SUPPLY AIR DIFFUSER
	TEMPERATURE SENSOR
	RETURN/EXHAUST AIRFLOW
	SUPPLY AIRFLOW
	VOLUME DAMPER
	CONDENSATE PIPE
	UL FIRE DAMPER

NOTES AND SPECIFICATIONS

- ALL MECHANICAL WORK SHALL BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS AND ORDINANCES AND IN A MANNER SATISFACTORY TO THE OWNER AND AUTHORITY HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND PAY ALL APPLICABLE FEES.
- CARRIER OR YORK PACKAGED HVAC SYSTEMS ARE REQUIRED. ALL HVAC EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS WRITTEN INSTALLATION GUIDE.
- PROVIDE CONCENTRIC DIFFUSER KIT AS SPECIFIED BY DOLLAR GENERAL NATIONAL ACCOUNTS HVAC MANUFACTURERS. (NO EXCEPTIONS PERMITTED). CONCENTRIC DIFFUSER KIT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS INSTALLATION INSTRUCTIONS. CONCENTRIC DIFFUSER SHALL BE HARD DUCTED FROM HVAC UNIT, THE USE OF FLEXIBLE DUCT DROPS ARE NOT ALLOWED, NO EXCEPTIONS.
- REFER TO SHEET S3, FOR GENERAL NOTES AND DETAILS FOR ROOF CURB INFORMATION.
- ALL SUPPLY AND EXHAUST AIR DUCTWORK SHALL BE CONSTRUCTED OF ROUND GALVANIZED SHEET METAL AND BE FABRICATED ACCORDING TO THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK. SUPPLY, RETURN AND POSITIVE PRESSURE EXHAUST DUCTWORK SHALL BE SEALED IN ACCORDANCE WITH SMACNA SEAL CLASS C.
- TESTING OF HVAC UNITS THRU EMS PANEL IS ACCOMPLISHED BY WARMING UP OR COOLING DOWN A SPACE TEMPERATURE SENSOR AND WATCH THE FAN, HEAT AND COOL STAGES CYCLE ON AND OFF. THIS REQUIRES TWO PEOPLE AT ALL TIMES. ONE TO WATCH THE SCREEN AND THE OTHER TO WATCH OPERATION OF THE HVAC UNIT. WHEN COMPLETE, PRESS THE HOME BUTTON TO RETURN TO THE MAIN SCREEN.
- COORDINATE HVAC SENSORS LOCATIONS WITH SHEET EMS1. LOCATE SPACE TEMPERATURE SENSORS AT 8'-0" A.F.F.
- PROVIDE CEILING MOUNTED EXHAUST FAN FOR RESTROOMS. INTERLOCK WITH RESTROOM LIGHTS. EXHAUST FAN SHALL BE VENTED THRU SIDE WALL, NOT THRU THE ROOF.

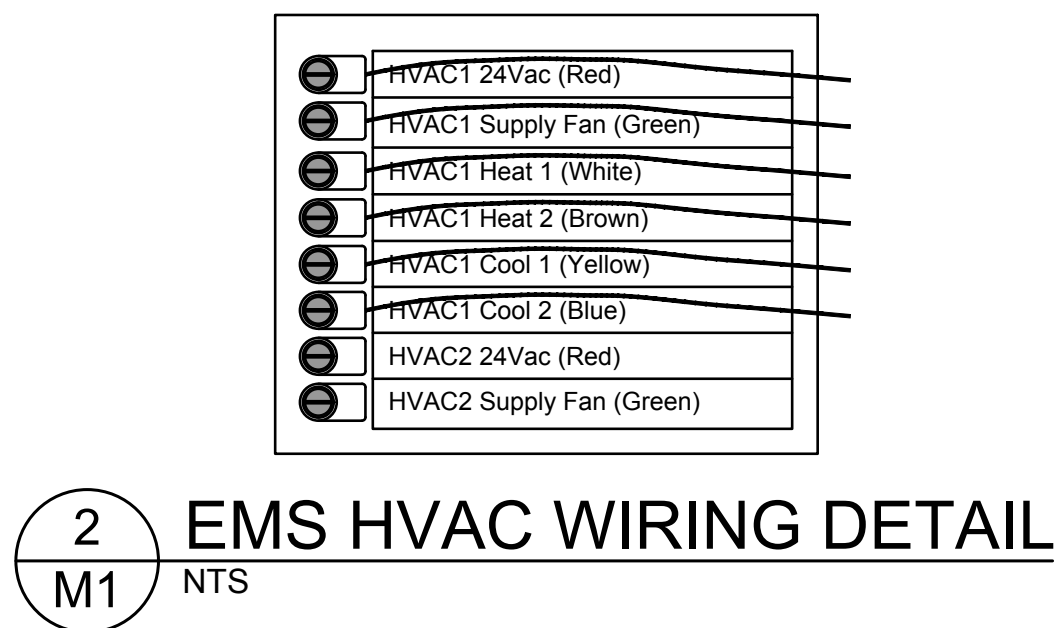
TEE WITH CAPPED LEGG TO ALLOW CONNECTION OF PRESSURE MEASURING DEVICE.

TEE WITH CAPPED LEGG TO SERVE AS SEDIMENT TRAP AND ALLOW CONNECTION OF PRESSURE MEASURING DEVICE.

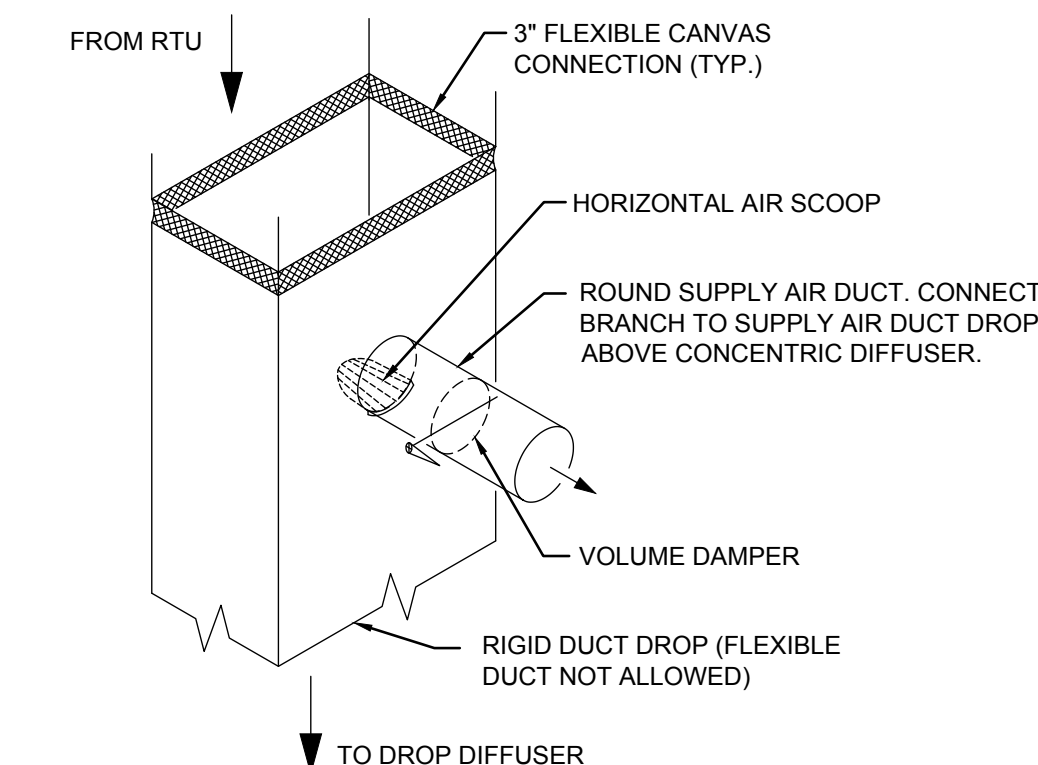
UNION
GAS SHUT OFF

PRESSURE REGULATOR EQUIPED AND LABELED FOR USE WITH VENT LIMITING DEVICE. PROVIDE VENT LIMITING DEVICE.

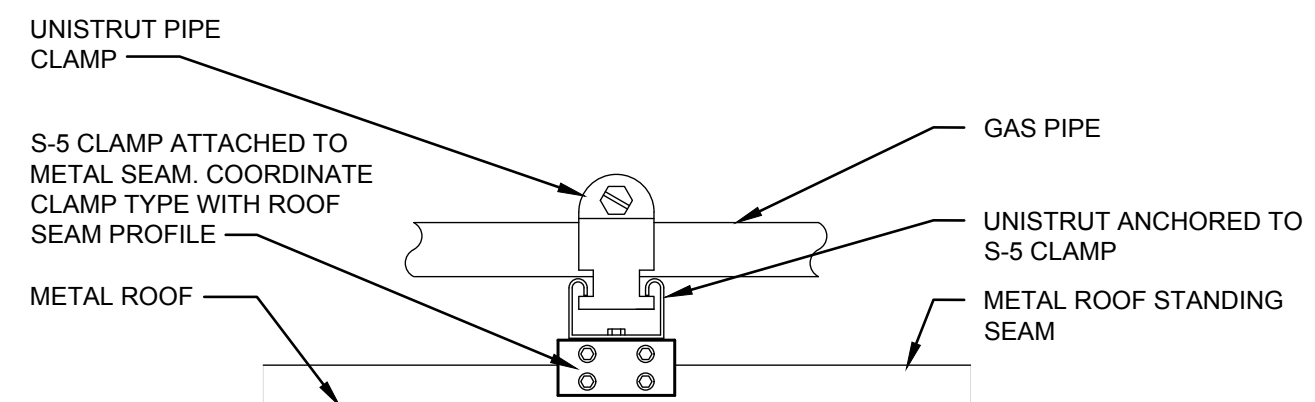
5 M1 GAS PRESSURE REGULATOR PIPING SCHEMATIC NTS



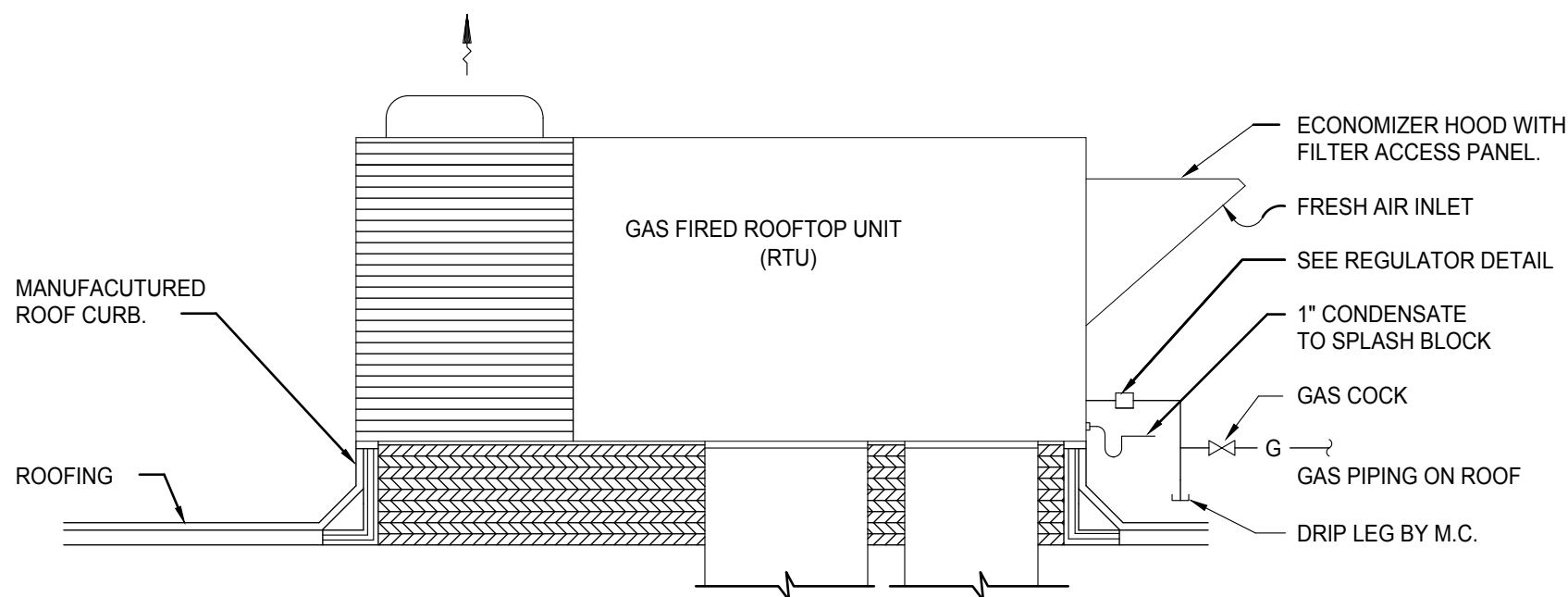
OUTSIDE AIR CALCULATIONS:	
SALES FLOOR AREA:	7450 FT2
15 PEOPLE / 1000 FT2	112 PEOPLE
7.5 CFM / PERSON	840 CFM
0.12 CFM / FT2	895 CFM
RECEIVING AREA:	
890 FT2	
0.12 CFM / FT2	105.6 CFM
OFFICE / BREAK AREA:	
175 FT2	
5 PEOPLE / 1000 FT2	0.9 PEOPLE
5 CFM / PERSON	4.5 CFM
0.06 CFM / FT2	10.5 CFM
TOILET:	
70 CFM PER	-140 CFM
TOTAL CFM	
	1750 CFM
Ez = 0.8	
1750 CFM / 0.8 = 2187 CFM	



NOTE: INSTALL HORIZONTAL AIR SCOOP HAVING A CONTINUOUSLY CURVED CROSS SECTION AND BALANCING DAMPER AT DUCT CONNECTION TO DIVERT SUPPLY AIR INTO THE CONNECTED DUCTWORK. LENGTH OF SCOOP SHALL BE LIMITED TO THE WIDTH OF THE SUPPLY AIR ANNULAR SPACE.



NOTE: SUPPORTS SHALL BE PROVIDED ON ALL ROOF-MOUNTED PIPING IN WITH CODE SPACING TABLE & AT EACH TAKE-OFF OR CHANGE IN DIRECTION. PIPING SUPPORT SHALL BE FURNISHED AND INSTALLED WITH ALL ITEMS SHOWN BY THE MECHANICAL CONTRACTOR.

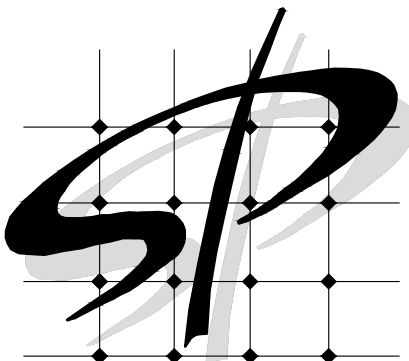


3 M1 ROOFTOP UNIT DETAIL NTS

4 M1 TYPICAL SUPPLY BRANCH CONNECTION DETAIL NTS

6 M1 ROOF MOUNTED PIPE SUPPORT (S-5) NTS

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DOLLAR GENERAL

MECHANICAL SCHEDULES & NOTES

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SHEET NUMBER
M2

HVAC UNIT SCHEDULE

MARK	MANF. & MODEL	FAN DATA				COOLING CAPACITY		HEATING CAPACITY		ELECTRICAL DATA			WEIGHT	EER	NOTES
		CFM	O.A.	E.S.P.	HP	TOTAL MBH	SENS. MBH	INPUT MBH	OUT MBH	VOLT/PH	MCA	MAX FUSE			
HVAC-1	YORK ZF072N08N2AAA	2400	570	1.0	3.0	68.8	50.4	100	80	208V/3ø	31.3	40	750 LBS.	11.0	1,2,3,4,5,6
HVAC-2	YORK ZF072N08N2AAA	2400	575	1.0	3.0	68.8	50.4	100	80	208V/3ø	31.3	40	750 LBS.	11.0	1,2,3,4,5,6
HVAC-3	YORK ZF072N08N2AAA	2400	575	1.0	3.0	68.8	50.4	100	80	208V/3ø	31.3	40	750 LBS.	11.0	1,2,3,4,5,6
HVAC-4	YORK ZF072N08N2AAA	2400	575	1.0	3.0	68.8	50.4	100	80	208V/3ø	31.3	40	750 LBS.	11.0	1,2,3,4,5,6

NOTES:

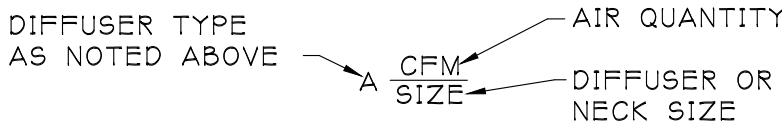
- COOLING CAPACITIES ARE RATED IN ACCORDANCE WITH ARI STANDARD 210/290 AT 95° AMBIENT OUTDOOR AIR TEMP., 80° DRY BULB, 67 WET BULB ENTRANCE AIR TEMP., AND NOMINAL AIR QUANTITY LISTED.
- FACTORY INSTALLED: THRU-THE-BASE CONNECTIONS
- PROVIDE BOTTOM DISCHARGE, BELT DRIVE AND AIR SIDE ECONOMIZER SECTION WITH DUAL ENTHALPY SENSOR AND BAROMETRIC RELIEF DAMPER.
- PROVIDE MANUFACTURES CONCENTRIC KIT.
- MECHANICAL CONTRACTOR SHALL COORDINATE WITH METAL BUILDING MANUFACTURER FOR ROOF CURB
- UNITS SHALL BE YORK PURCHASED THROUGH A NATIONAL ACCOUNT AGREEMENT; YORK -- PHONE# 800-481-9738 -- york-dollargeneral-be@jci.com

AIR DISTRIBUTION SCHEDULE

MARK	MANUFACTURER & MODEL #	FRAME TYPE	FACE TYPE	PATTERN	DAMPER	MATERIAL	SERVICE	FINISH	MAX. PD	MAX NC	NOTES
A	PRICE SMD	12x12 A.C.T.	LOUVER	4-WAY	NO	STEEL	SUPPLY	OFF-WHITE	0.15"	<30	1-3
B	PRICE 520	SURFACE	GRILLE	4-WAY	YES	STEEL	SUPPLY	OFF-WHITE	0.15"	<30	1-3
C	PRICE 530	SURFACE	GRILLE	N/A	NO	STEEL	TRANS	OFF-WHITE	0.15"	<30	1,3

NOTES:

- DIFFUSER DESIGNATIONS ON PLANS AS FOLLOWS:



- PROVIDE SQUARE TO ROUND TRANSITION MODEL TR.
- ACCEPTABLE MANUFACTURES: CARNES, TUTTLE & BAILEY, PRICE & TITUS. (NO SUBSTITUTIONS)

EXHAUST FAN SCHEDULE

MARK	MANUFACTURER & MODEL	CFM	S.P.	FAN TYPE	MOUNTING	DRIVE	MAX. SONES	MOTOR DATA		NOTES
								WATTS	VOLT/PH	
EF-1	GREENHECK SP-A110	75	0.25	CABINET	CEILING	DIRECT	0.8	49	120V/1ø	1-3
EF-2	GREENHECK SP-A110	75	0.25	CABINET	CEILING	DIRECT	0.8	49	120V/1ø	1-3

NOTES:

- FAN SHALL BE INTERLOCKED WITH LOCAL LIGHT SWITCH.
- PROVIDE WITH BACKDRAFT DAMPER
- PROVIDE FAN MOUNTED SPEED CONTROL.

MECHANICAL GENERAL NOTES

- DO NOT SCALE DRAWINGS. SEE ARCHITECTURAL DRAWINGS AND REFLECTED CEILING PLAN FOR EXACT LOCATION OF DOORS, WINDOWS, CEILING DIFFUSERS, ETC.
- ALL DUCTWORK AND PIPING SHALL BE COORDINATED WITH THE WORK PERFORMED UNDER OTHER DIVISIONS TO AVOID INTERFERENCE.
- NOT USED
- HVAC CONTRACTOR SHALL REPAIR, REPLACE, OR REPAINT TO MATCH EXISTING SURFACES DAMAGED BY THE HVAC CONTRACTOR DURING INSTALLATION OF MECHANICAL EQUIPMENT.
- HVAC CONTRACTOR SHALL REMOVE FROM THE JOBSITE ANY MATERIALS NOT ECONOMICALLY RECOVERABLE. ANY MATERIALS REMOVED FROM THE JOBSITE AND SOLD FOR SALVAGE SHALL BE CREDITED TO THE OWNERS ACCOUNT.
- INSTRUMENT TEST HOLES SHALL BE LOCATED IN ALL NEW SUPPLY, EXHAUST, AND RETURN DUCTS.
- HVAC CONTRACTOR SHALL PROVIDE AND INSTALL MANUAL BALANCING DAMPERS IN DUCTWORK FIVE FEET UPSTREAM OF ALL DUCTED DIFFUSERS. IF FIVE FEET CANNOT BE MAINTAINED THE MAXIMUM DISTANCE POSSIBLE SHOULD BE OBSERVED. THE CONTRACTOR SHALL ALSO PROVIDE AND INSTALL ALL DAMPERS NECESSARY TO BALANCE THE SYSTEM TO AIR FLOW VALUES SHOWN ON PLANS.
- MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE SEVEN FEET.
- DUCT SIZES GIVEN ARE INSIDE CLEAR DIMENSIONS.
- HVAC CONTRACTOR SHALL PROVIDE AND INSTALL FIRE AND/OR SMOKE DAMPERS WHERE INDICATED ON PLANS AND IN SUCH LOCATIONS AS REQUIRED BY APPLICABLE CODE. INSTALLATION OF FIRE AND/OR SMOKE DAMPERS SHALL BE IN STRICT ACCORDANCE WITH THE DAMPER MANUFACTURERS RECOMMENDATIONS.
- ALL VALVES AND PIPING SPECIALTIES SHALL BE LINE SIZED UNLESS NOTED OTHERWISE. USE ECCENTRIC REDUCERS ON CONTROL VALVES WHERE REQUIRED.
- DUCTWORK SHALL BE GALVANIZED SHEET METAL CONSTRUCTED IN ACCORDANCE WITH THE LATEST SMACNA STANDARDS.
- DUCTWORK SHALL BE WRAPPED WITH 2" FIBER GLASS INSULATION EQUAL TO MANVILLE "MICROLITE". EXPOSED DUCTWORK SHALL BE INTERNALLY INSULATED.
- FLEXIBLE DUCTWORK SHALL BE EXTERNALLY INSULATED AND CONFORM TO ALL REQUIREMENTS OF U.L. 181 FOR CLASS 1 DUCTS.
- ALL PIPING, DUCTS, VENTS, ETC. EXTENDING THROUGH THE WALL AND/OR ROOF SHALL BE FLASHED AND COUNTERFLASHED IN A WATERPROOF MANNER.
- ALL PIPING INSULATION SHALL RUN CONTINUOUSLY THROUGH FLOOR, WALLS, AND PARTITIONS.
- ALL PIPING SHALL BE SUPPORTED ADJACENT TO EQUIPMENT, TO PREVENT WEIGHT OF PIPING BEING PLACED ON EQUIPMENT.
- HVAC CONTRACTOR SHALL PROVIDE ALL ROOF CURBS TO THE GENERAL CONTRACTOR FOR ASSEMBLY AND INSTALLATION PRIOR TO THE INSTALLATION OF ROOFING MATERIALS.
- HVAC CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS ON JOBSITE.
- VERIFY ALL ROUTING OR ALL WORK ON JOBSITE.
- GENERAL CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORTING ANGLES AND EXTRA SUPPORT BEAMS FOR ROOF-TOP A.C. UNITS, EXHAUST FANS, ETC.
- IT IS THE INTENTION OF THESE DRAWINGS TO COVER ALL WORK FOR A COMPLETE FIRST CLASS MECHANICAL INSTALLATION. ANY EQUIPMENT, TRIM HARDWARE AND/OR DEVICES USUALLY UTILIZED IN THE CLASS OF WORK, THOUGH NOT SPECIFICALLY MENTIONED OR SHOWN ON THE DRAWINGS, BUT WHICH MAY BE NECESSARY FOR THE SATISFACTORY COMPLETION OF THE WORK (AS DETERMINED BY THE ARCHITECT) SHALL BE FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR AS PART OF HIS TOTAL WORK.
- HVAC CONTRACTOR SHALL HAVE THE MECHANICAL SYSTEMS BALANCE BY AN INDEPENDENT CERTIFIED BALANCE CONTRACTOR. THIS CONTRACTOR SHALL PREPARE A WRITTEN REPORT FOR SUBMISSION TO THE ENGINEER.

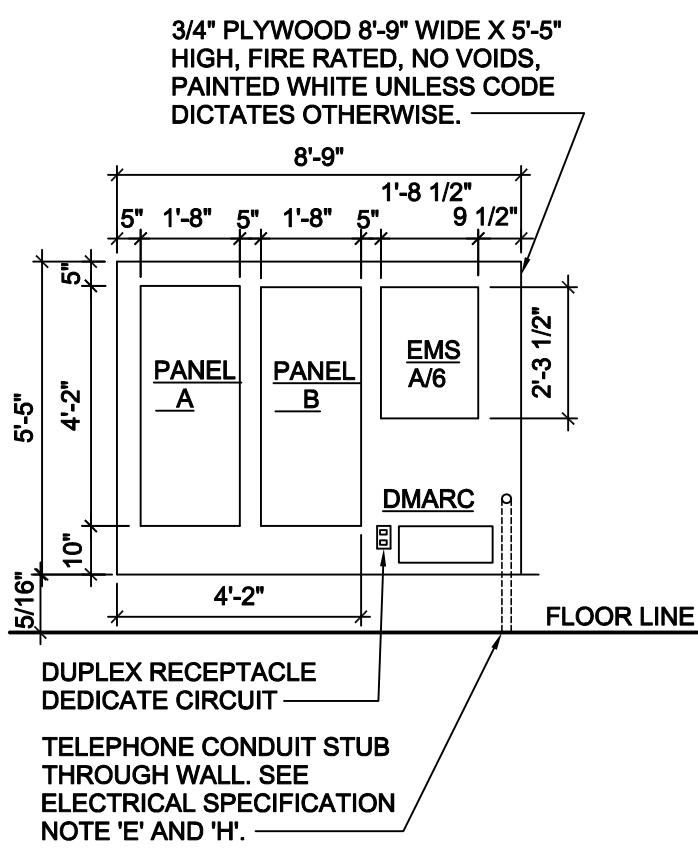
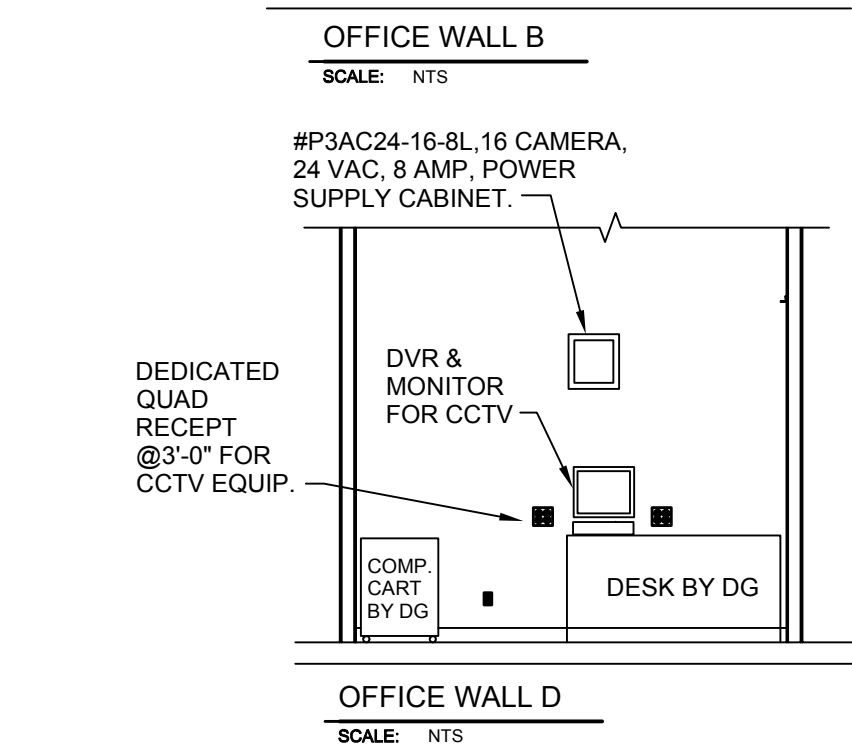
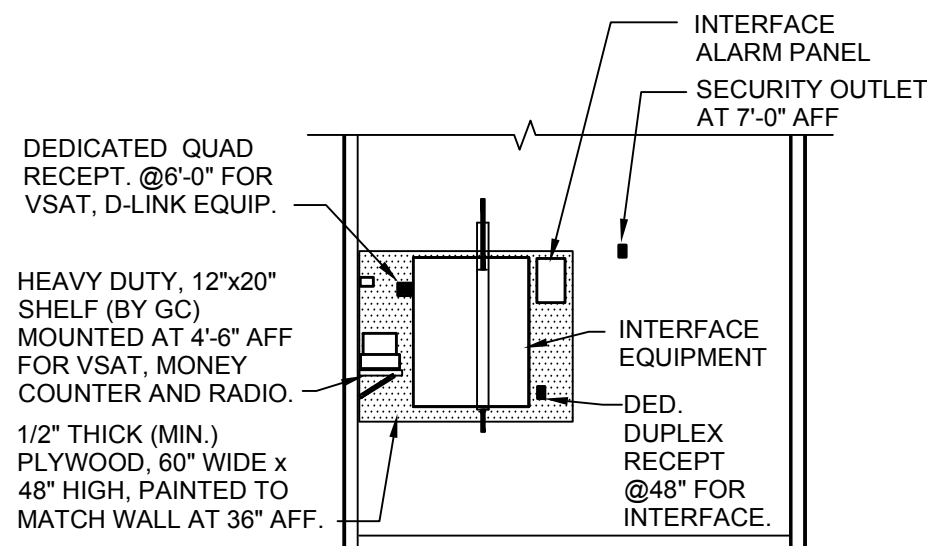
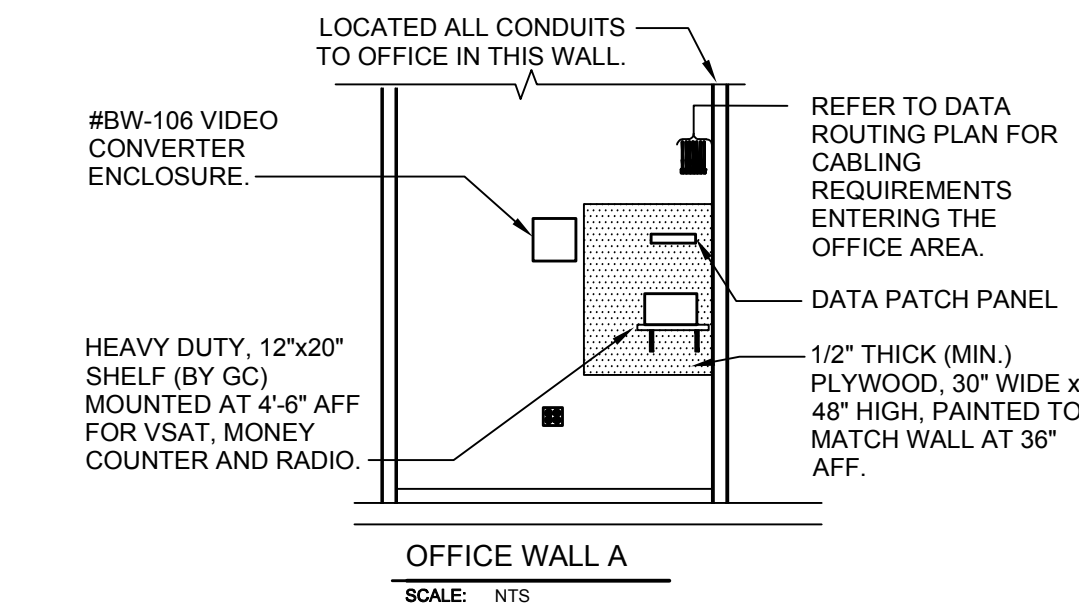
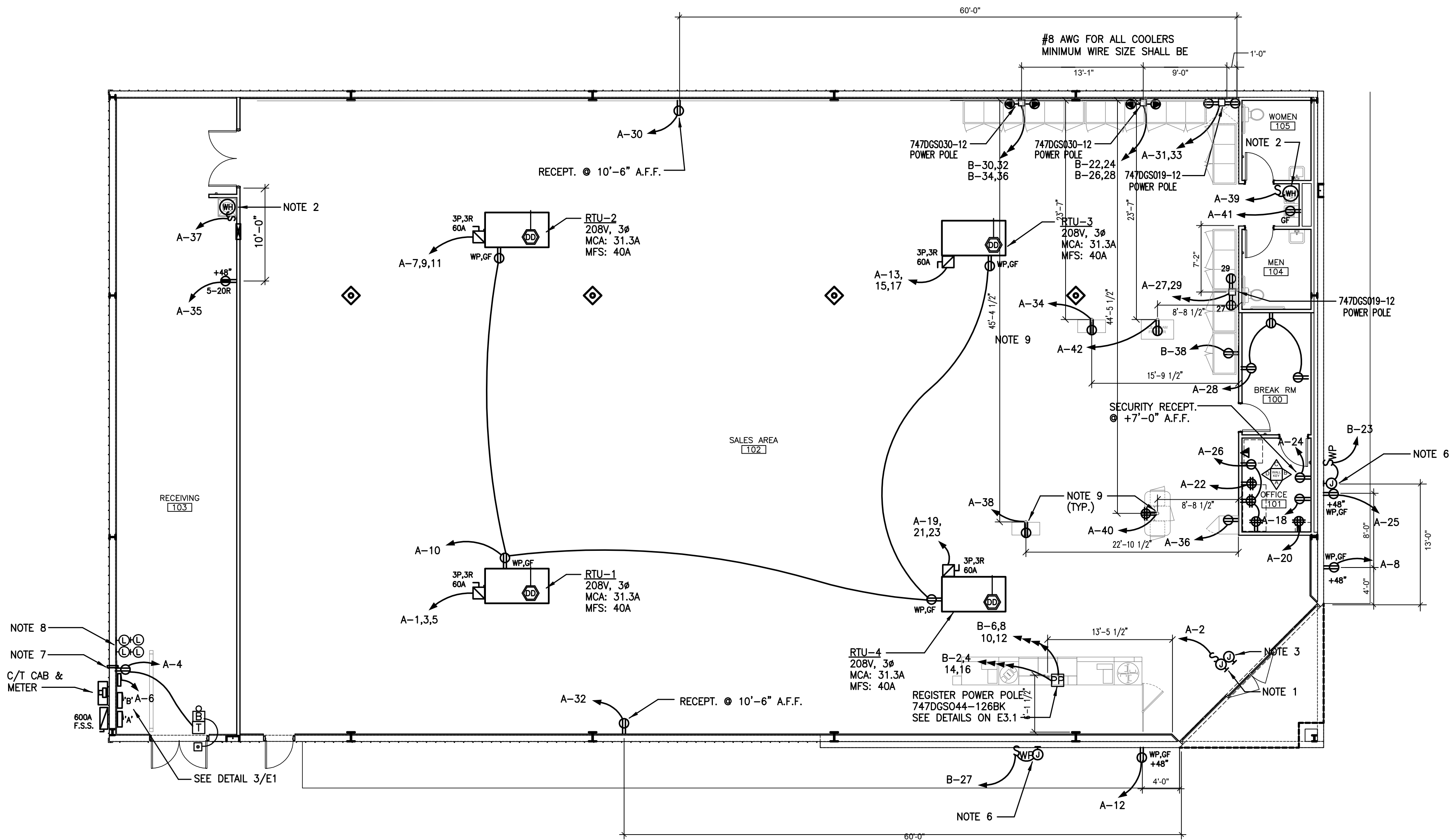
ELECTRICAL SPECIFICATIONS:

- ALL EXPOSED WIRING SHALL BE CONTAINED IN CONDUIT OF PROPER SIZE.
- ALL WIRING SHALL CONFORM TO LOCAL, STATE, AND FEDERAL CODES.
- SERVICE IS TO BE MINIMUM 400 AMP, 3 PHASE.
- REQUIRED CUSTOM BUILT POWER POLE ASSEMBLIES AVAILABLE FROM D&P CUSTOM LIGHTS & PRODUCTS INC. PHONE: (800) 251-2200 OR (615) 350-7800, 7111 COCKRILL BEND INDUSTRIAL ROAD, NASHVILLE, TN 37209 SEE E3.A
- EXTERIOR EXPOSED PHONE LINES TO BE INSTALLED IN RIDGED CONDUIT. PROVIDE EMERSON 3/4" X 5-FT. METALLIC CABLE U-GUARD #755, OR EQUAL.
- ELECTRICAL PANEL TO BE LABELED CORRECTLY AND WITH LEGIBLE PRINT.
- PHONE LINES - TWO RJ-11 PORTS. ONE (1) LOCATED IN OFFICE W/RJ-45 DATA JACK COMBO AND ONE (1) AT REGISTER. 24 GA. CAT 5, 4-PAIR TWISTED WIRE ONLY. USE BLUE AND BLUE & WHITE WIRES. HOOK TO LINE #1 TERMINAL IN RJ-11 JACK EACH PHONE JACK TO HAVE DEDICATED, SEPARATE HOME RUN TO DMARC. LABEL AS "PHONE" AT THE DESTINATION AND AT DMARC. PHONE COMPANY PROVIDES FINAL HOOK UP TO DMARC ONLY. PHONE JACKS ARE SUPPLIED AND WIRED BY CONTRACTOR.
- PROVIDE 1 1/2" EMT CONDUIT TO ACT AS ACCESS SLEEVE TO ALLOW PHONE COMPANY TO TERMINATE AT DMARC. CONTRACTOR TO PROVIDE & INSTALL PHONE WIRING & RJ-11 PHONE JACK FOR A COMPLETED WORKING SYSTEM PRIOR TO PHONE COMPANY FINAL HOOK-UP.
- ALL 120 VOLT OUTDOOR RECEPTACLES TO HAVE "WET LOCATION - IN USE" COVERS.
- ALL CONDUCTORS TO BE COPPER, #12 AWG MINIMUM SIZE, OR SIZE AS REQUIRED BY LOAD AND OVER CURRENT PROTECTION.
- SEE EMS SHEETS EMS1.A, EMS2.A, EMS3.A, EMS4.A FOR ENERGY MANAGEMENT SYMBOLS AND INFORMATION.
- ELECTRICIAN TO PROVIDE 1 1/2" CONDUIT WITH PULL STRING FOR SATELLITE LINE. REFER TO 3/A3.A AND 1/S1.A FOR LOCATION.

LINE #1 WILL HAVE TWO RJ-11 JACKS. ONE AT REGISTER. SECOND IN THE OFFICE. LABEL AS PHONE. ALL PHONE JACKS REQUIRE A SEPARATE 24 ga. CAT 5, 4 PAIR HOME RUN TO DMARC. NOTE SEPARATE GROUND WIRES. REFER TO SHEET E-7 FOR DETAILS.

LEGEND

- BUZZER - TORK MDL #TA725 W/ TRANSFORMER MDL#TA592
- 125/250V NEMA L14-20-R 4 PRONG TWIST LOCK
- 125V NEMA 5-20R DUPLEX. PANEL/CIRCUIT IN PANEL
- DISCONNECT
- POWER POLE
- PHONE JACK @ REGISTER
- RJ-11, RJ-45 DATA JACK, PHONE COMBO @ OFFICE



1 FLOOR PLAN - POWER

1/8" = 1'- 0"

NOTES:

- J. BOX FOR AUTOMATIC DOOR POWER MOUNTED ABOVE CEILING.
- WATER HEATER, 120V, 1Ø, 1.6 KW, PROVIDED BY MECH. CONTR., WIRED BY E.C. PROVIDE A 20A, 1P DISC. SWITCH. COORD. MOUNTING HEIGHT WITH PLUMBING CONTRACTOR.
- J. BOX FOR CCTV MOUNTED AT 12" ABOVE LAY-IN CEILING AND CENTERED ABOVE DOORS. TIE INTO SECURITY CIRCUIT IN THE OFFICE. SEE A2.1 FOR DETAILS.
- MODULAR JACK WITH RJ-11/RJ-45 JACKS IN COMBO OUTLET WITH TWO 24 GA, 4 TWISTED PAIR CAT 5 CABLE. CABLE SHALL BE RUN TO REGISTER LOCATION WITH 20' EXTRA COILED CABLE. PROVIDE AN RJ-45 MALE FITTING ON THIS END.
- DUCT SMOKE DETECTOR PROVIDED AND INSTALLED BY MECHANICAL CONTRACTOR, POWER WIRING BY ELEC. CONTRACTOR. MECH. CONTRACTOR SHALL PROVIDE AND INSTALL REMOTE AUDIBLE/VISUAL ANNUNCIATOR FOR DUCT DETECTOR. VERIFY LOCATION OF ANNUNCIATORS WITH OWNER'S REPRESENTATIVE.
- PROVIDE A JUNCTION BOX FOR EXTERIOR TENANT SIGN. COORDINATE EXACT LOCATION WITH ARCHITECTURAL ELEVATIONS. MOUNT JUNCTION BOX ON INSIDE OF PARAPET WALL. PROVIDE A WEATHERPROOF DISCONNECT SWITCH.
- PROVIDE A 1 1/2" RIGID PIPE SLEEVE THROUGH WALL FOR TELEPHONE SERVICE ENTRANCE WIRING. E.C. SHALL SEAL PENETRATION AFTER TELEPHONE SERVICE IS INSTALLED.
- REMOTE DUCT SMOKE DETECTOR ANNUNCIATORS. VERIFY LOCATION WITH OWNER'S REPRESENTATIVE. MOUNT ANNUNCIATORS AT +6'-0" A.F.F. LABEL ANNUNCIATORS AS TO UNIT SERVED.
- PROVIDE J. BOX AT STRUCTURE WITH WHITE SO CORD DOWN TO RECEPTACLE AT COOLER. PROVIDE J. BOX AT CEILING WITH THREADED HUB AND STRAIN RELIEF CONNECTOR AND A BOX LISTED FOR PENDANT CORD SUPPORT WITH A THREADED STRAIN RELIEF CONNECTOR AT BOX. PROVIDE CORD LENGTH TO HANG RECEPTACLE AT +24" A.F.F. VERIFY M.H. WITH OWNER.

3 PANEL ELEVATION

NO SCALE

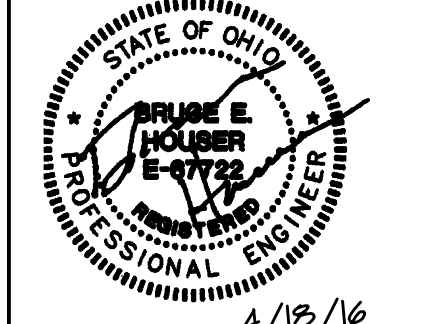
2 OFFICE ELEVATIONS

NO SCALE



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Mathews, North Carolina 28105
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#	DATE	REVISION
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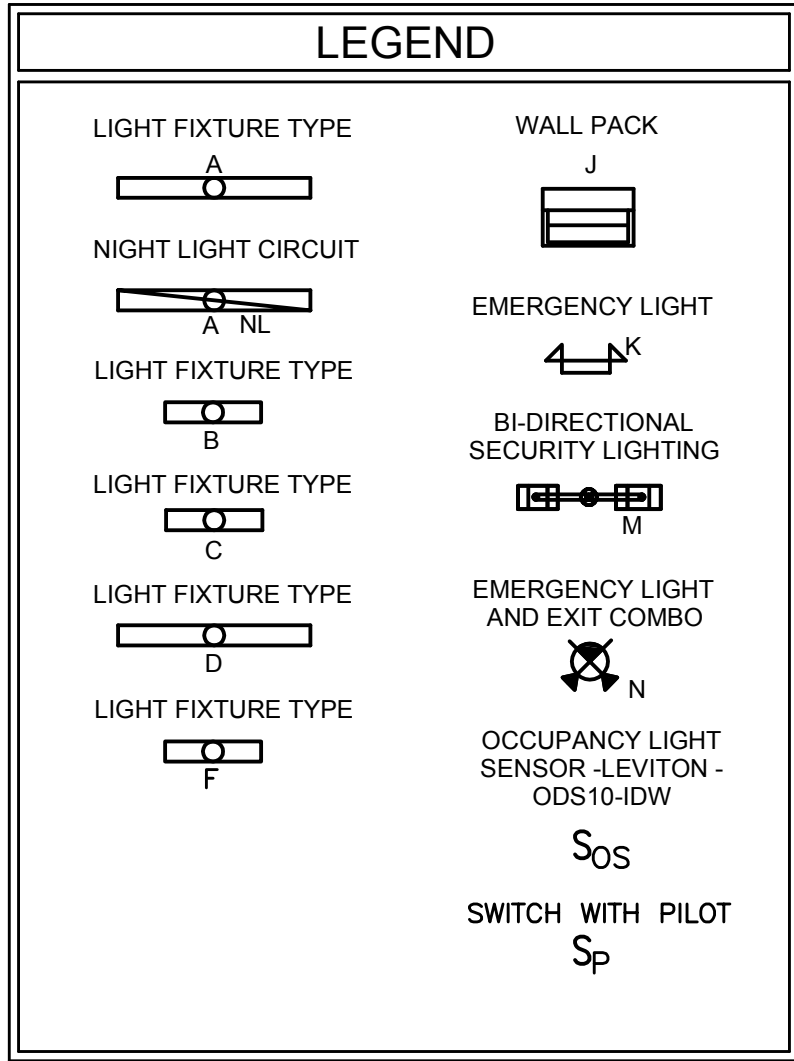
DOLLAR GENERAL #17434
499 LONG STREET
ASHVILLE, OHIO 43103

TENANT

DOLLAR GENERAL
FLOOR PLAN - POWER
SHEET TITLE

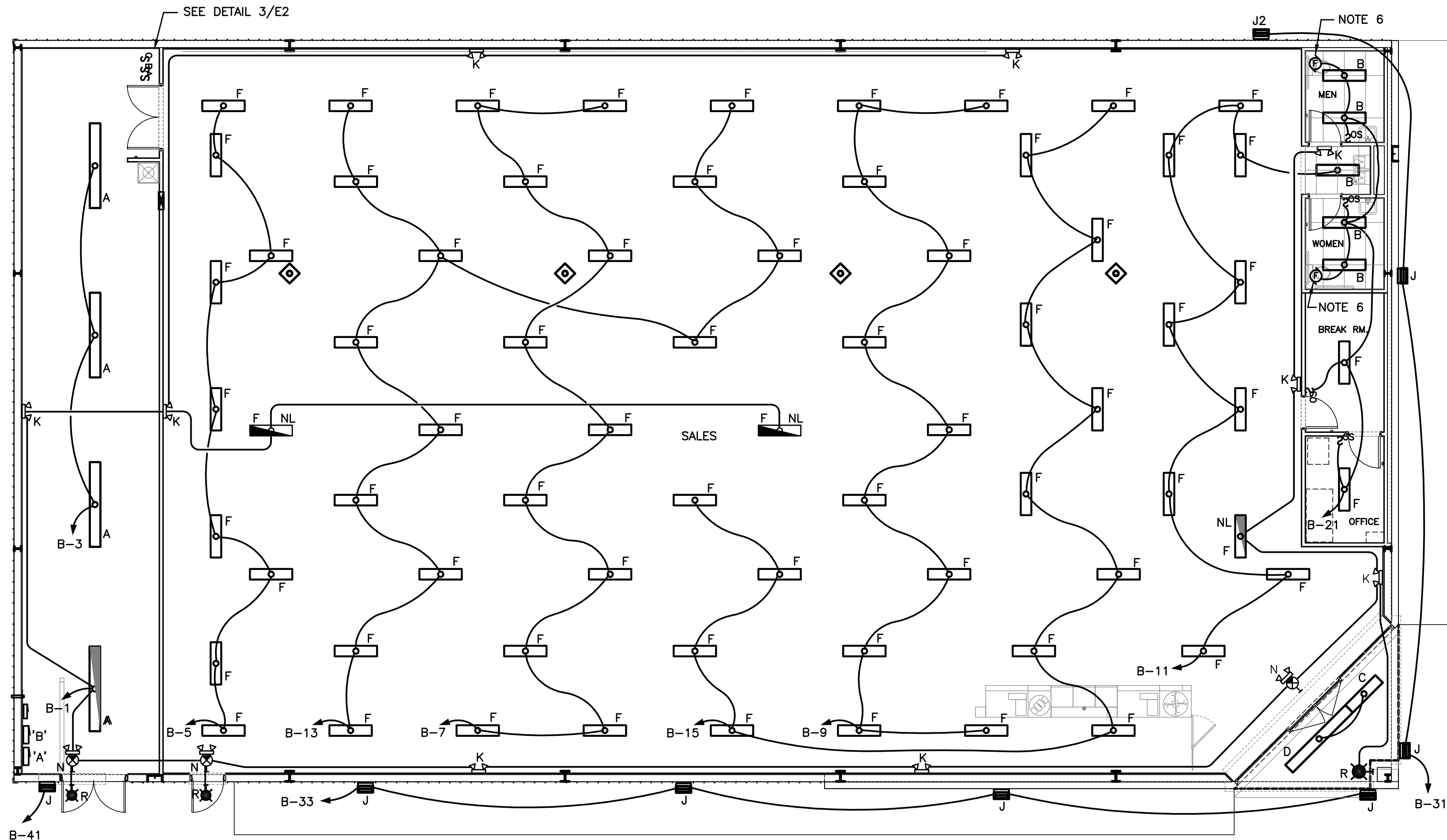
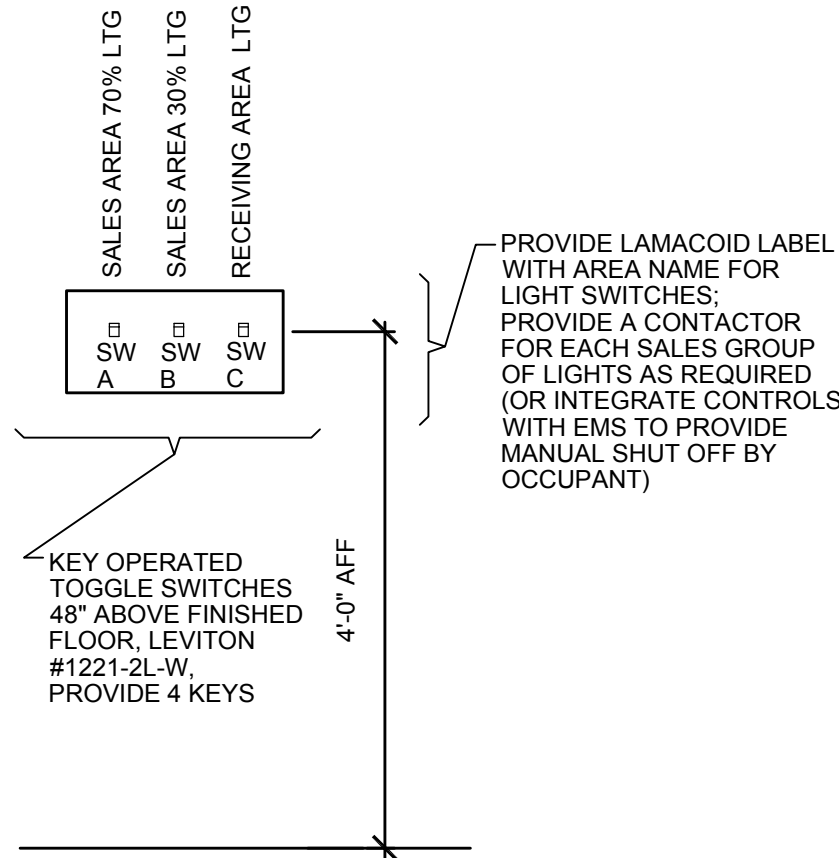
SPI Client	DATE
16137	04-18-16

SHEET NUMBER
E1



3 SWITCH DETAIL

NOT TO SCALE



1 FLOOR PLAN - LIGHTING

1/8" = 1'-0"

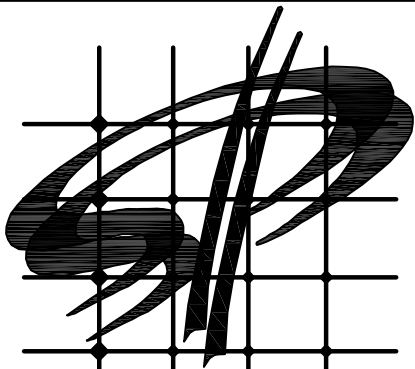
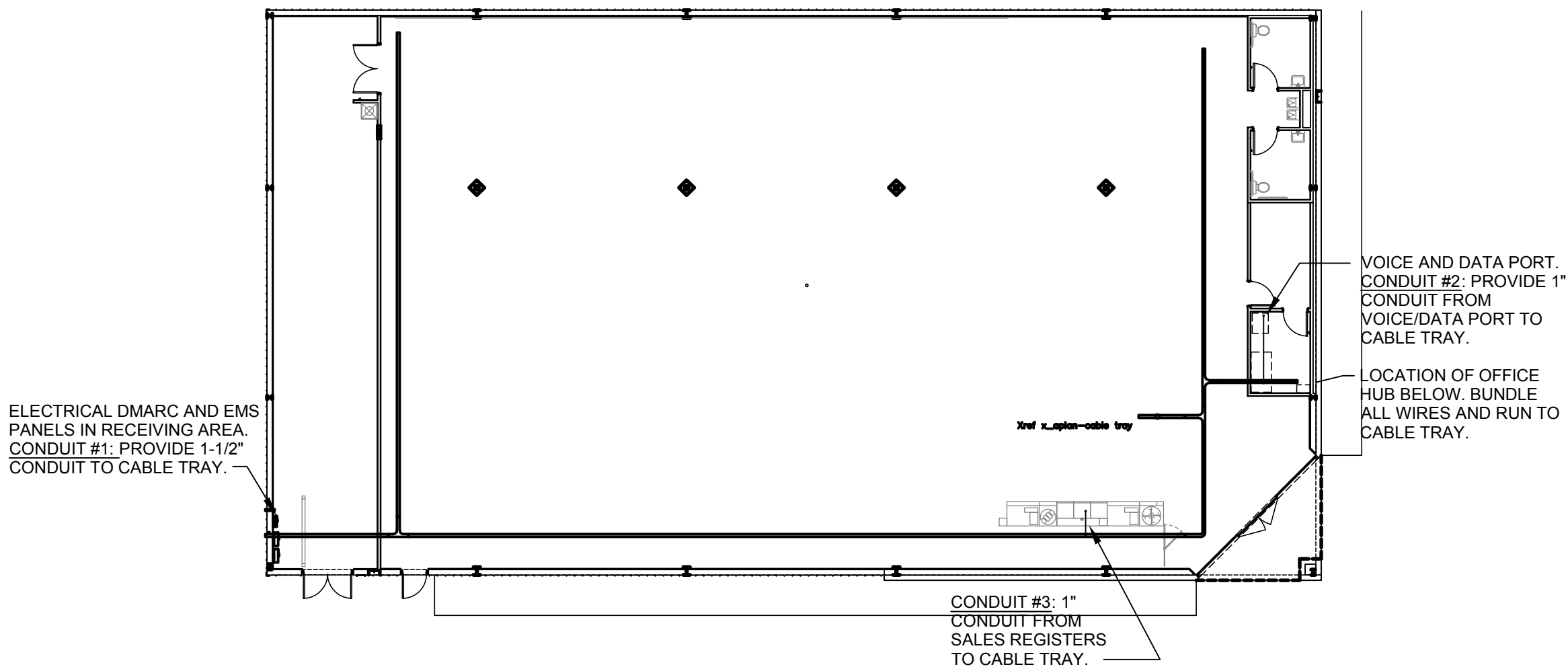
- NOTES:
- ALL 4' FLUORESCENT LIGHTING FIXTURES SHALL BE TYPE 'F' UNLESS NOTED OTHERWISE.
 - SEE ARCHITECTURAL DETAILS FOR FIXTURE MOUNTING DETAILS.
 - REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR EXACT LOCATIONS OF ALL FIXTURES.
 - MOUNT ALL EXIT AND EMERGENCY LIGHT FIXTURES AT 9'-0" A.F.F. TO CENTER.
 - CIRCUIT EMERGENCY BALLAST AHEAD OF AUTOMATIC SWITCHING.
 - TOILET EXHAUST FAN, 49W, 120V, SWITCHED WITH LIGHTS.

LIGHT FIXTURE DESCRIPTION						
SYMB	TYPE	MANF	PART #	DESCRIPTION	COUNT	WATTS
	A	ORION	MFSBC8424T8HI-120	8' STRIP (2) LAMPS: (T8/28W)	4	56
	B	LITHONIA	TZ-1-32-MVOLT-GEPI5	4' STRIP 40W LED	5	40
	C	ORION	SPTS1-40W	4' STRIP (2) LAMPS: T8/28W LAMP.	0	56
	CE	LITHONIA	ZL1D-L48-5000LM-FST-MVOLT-40K-WH	4' STRIP (2) LAMPS: T8/28W LAMP. WITH 1400 LUMEN, 90 MIN. BODINE B50U EMERGENCY BALLAST MTD. ABOVE CEILING	1	56
	D	ORION	PFSBC4424T8HI-120	8' STRIP (4) LAMPS: T8/28W LAMP.	1	114
	F	LITHONIA	Z-2-32-MVOLT-GEPI5	4' STRIP (3) LAMPS: T8/28W LAMP.	71	96
	J	HARRIS	MFSRSR334T8HW	WALL PACK 150W MH	7	150
	J2	LITHONIA	C 3 32 MVOLT 1/3 BIHP RFD167737	WALL PACK 50W MH	1	50
	K	ORION	MFHD-WP-150MH	EMERGENCY LIGHT (2) HEADS	7	20
	KE	LITHONIA	TWH-150M-TB-SCWA-LPI	EMERGENCY LIGHT (2) HEADS	2	20
	N	ORION	MFHD-WP-50MH	EMERGENCY LIGHT/EXIT COMBO (2) HEADS	3	6
	N.1	LITHONIA	MFHD-WP-50MH	EXIT LIGHT RED	0	6
	S	ORION	WLTU-LED	POLE MOUNTED 400W MH	0	400
	S2	ORION	MFHD-PLL-400MH SBL W/ 25" SQUARE STEEL POLE	TWIN POLE MOUNTED 400W MH	2	400

REQUIRED NATIONAL ACCOUNT VENDORS			
COMPANY	CONTACTS	PHONE #	REQUIRED ITEMS
D&P CUSTOM LIGHTING	NATIONAL ACCOUNT SALES	800-251-2200	CUSTOM POWER POLES
EMERSON CLIMATE TECHNOLOGIES	WEBSITE: http://dollargeneralbid.ectosolutions.net	USER NAME: dollargeneralbid PASSWORD: dollargeneralbid	EMS SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL EMS PANEL REQUIRES STORE #, CITY, STATE, ZIP CODE & QTY. OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING.
ORION ENGINEERED SYSTEMS	BRENDAN HARTT	904-380-5033 bhartt@oess.com	ELECTRICAL LIGHTING SUPPLIES AL,AR,AZ,CA,CO,FL,GA,KY,LA,MS,NC,NM,NV,OK,SC,TN,TX,VA,WY

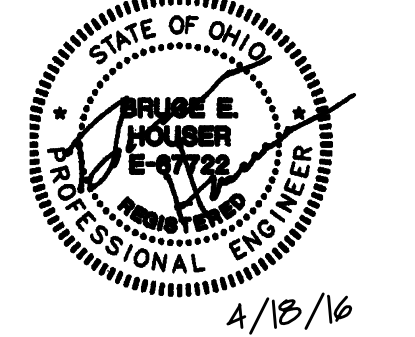
2 COMMUNICATION RACEWAY DETAIL

1/16" = 1'-0"



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#	DATE	REVISION
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DOLLAR GENERAL #17434
499 LONG STREET
ASHVILLE, OHIO 43103

TENANT

DOLLAR GENERAL

SHEET TITLE

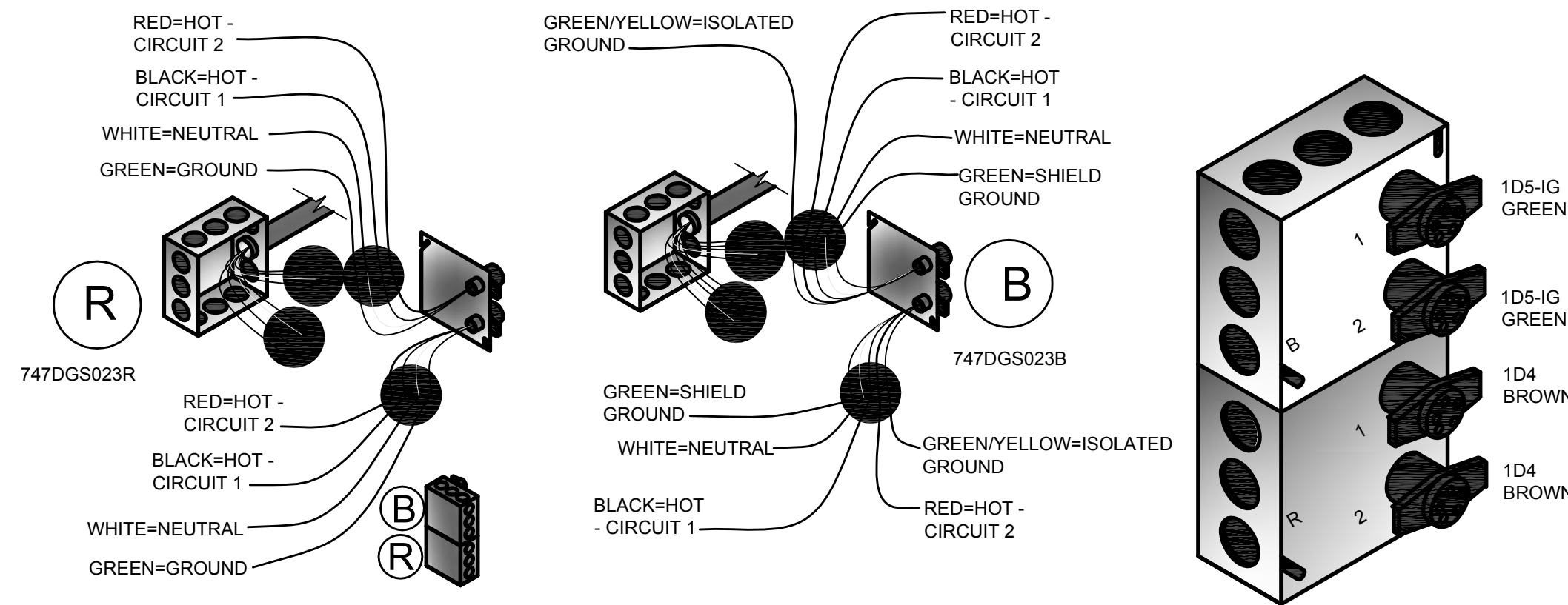
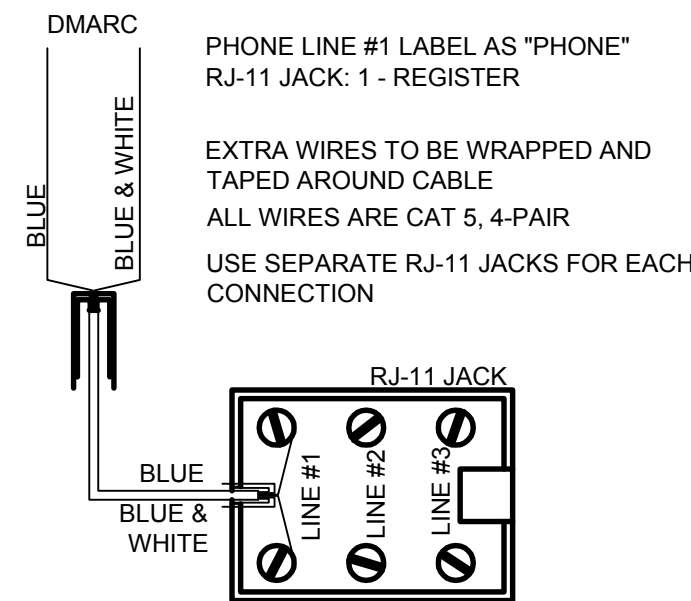
FLOOR PLAN LIGHTING

SPI Client	DATE
16137	04-18-16

SHEET NUMBER
E2

1 REGISTER PHONE WIRING

E3.1 NO SCALE



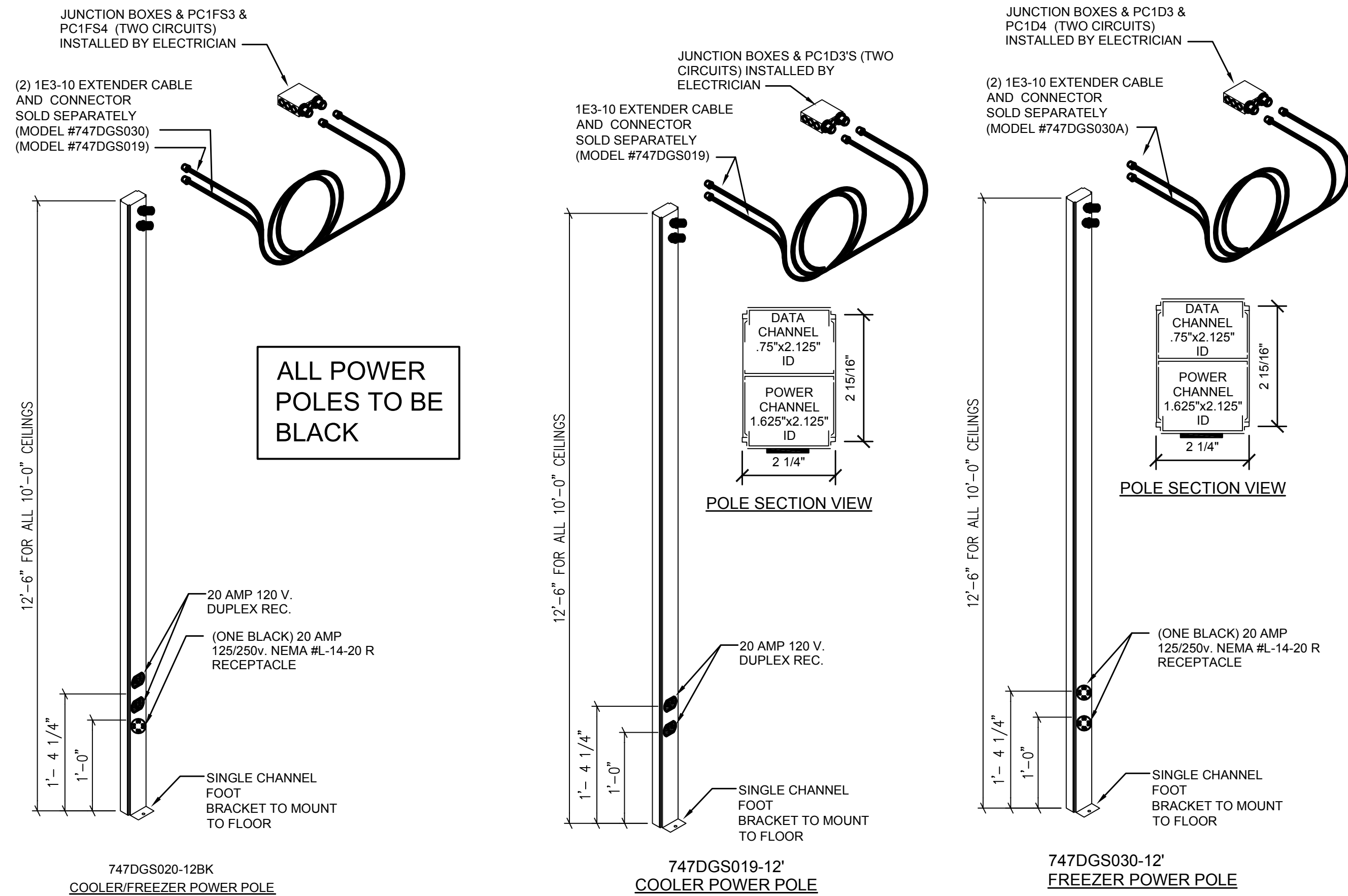
*NOTE: BEFORE ORDERING AND INSTALLATION OF ELECTRICAL COMPONENTS FOR REGISTERS, CONSULT FINAL FIXTURE PLAN FOR NUMBER AND LOCATION.

MAXIMUM CIRCUITS FOR REGISTERS - CIRCUITS AT MAIN REGISTER - (8) 110V, CIRCUITS AT ISLAND REGISTER - (3) 110V

REGISTER ELECTRICAL COMPONENTS			
Qty.	D&P Part No.	Power Pole Description	National Account Provider
1	747DGS023B	Dual circuit power kit with isolated ground	D & P
1	747DGS023R	Dual circuit power kit	D & P
1	747DGS044-126BK	12' ZCH Regular Pole W/2-C & 1-D Connector DRW #2004-12	
1	747DGS032A	10' Cable Kit (Set of 4 whips)	

2 REGISTER ELECTRICAL DETAIL

E3.1 NO SCALE



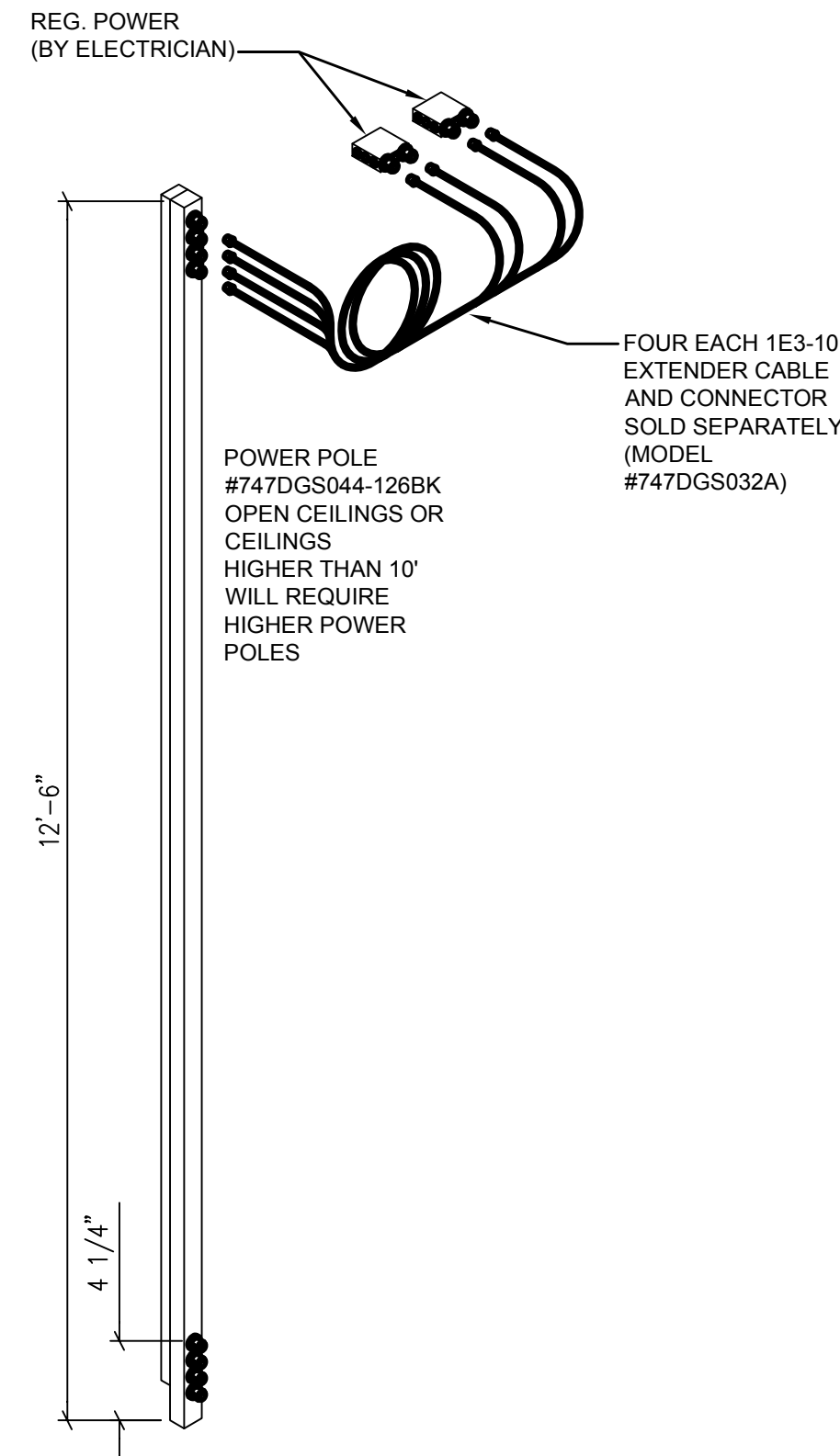
COOLER/FREEZER POWER POLES		
Qty.	D&P Part No.	Power Pole Description
1	747DGS030A	125/250 Cable kit for freezer
1	747DGS019A	Cable kit for 120 volt cooler
1	747DGS020-12BK	125/250 volt Power pole with NEMA L1420 connection
1	747DGS030	120 Volt 1 CIR. Power pole

COOLER/FREEZER POWER POLES		
Qty.	D&P Part No.	Power Pole Description
2	747DGS019	Cable kit for 120 volt cooler
2	747DGS019-12	120 Volt 2 CIR. Power pole
2	747DGS030-12	125/250 volt Power pole with NEMA L1420 connection
2	747DGS030	125/250 Cable kit for freezer

3 COOLER/FREEZER POWER POLE

E3.1 NO SCALE

ALL WHIPS ARE TO BE 10'-0"



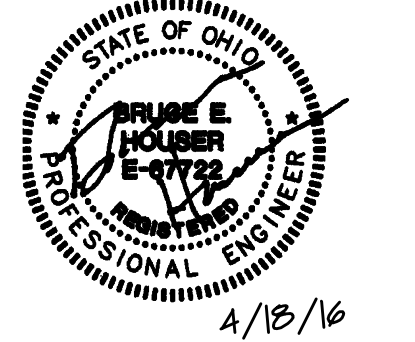
4 REGISTER POWER POLE

E3.1 NO SCALE



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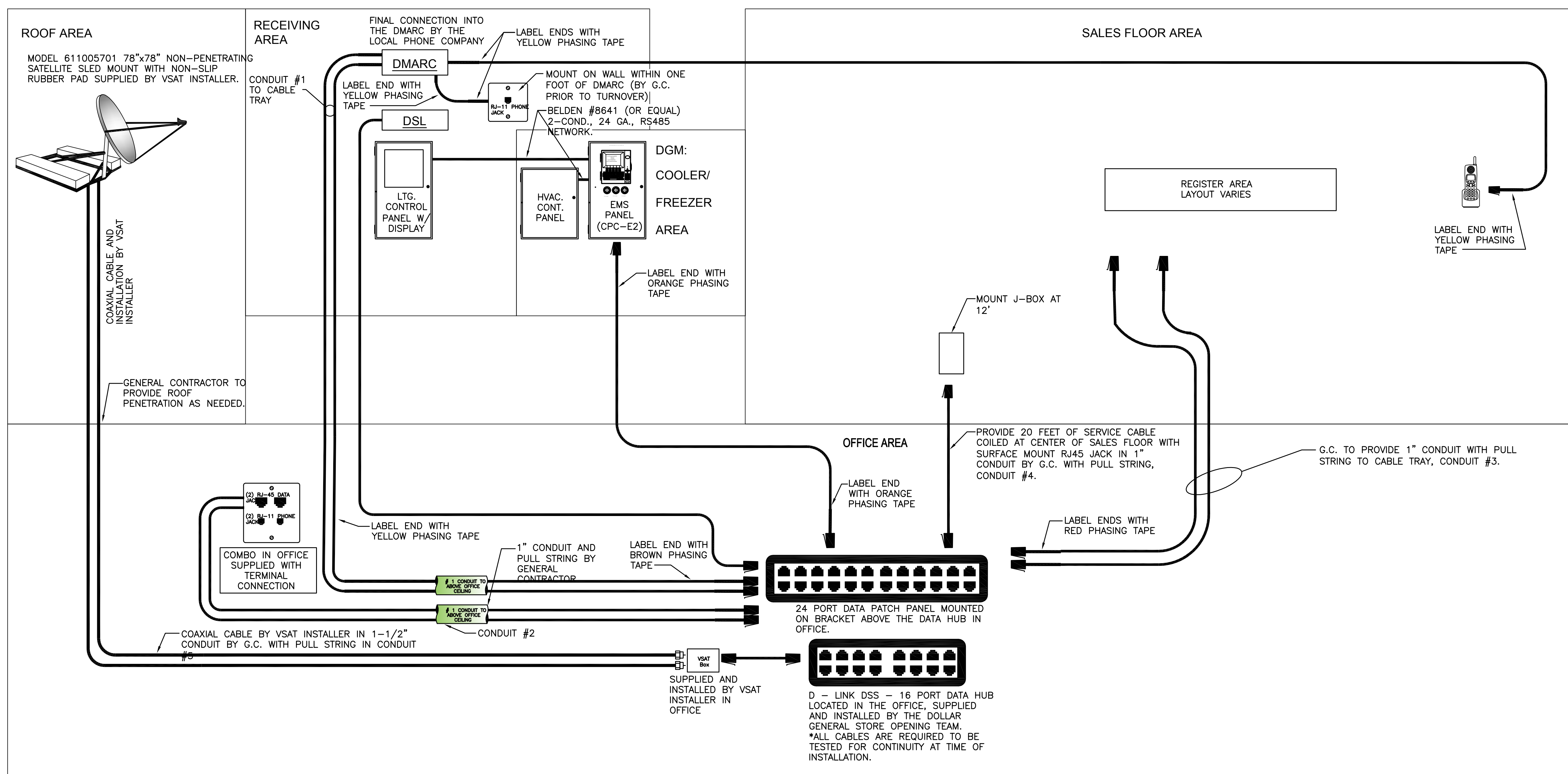
#	DATE	REVISION
1	04/18/16	1

TENANT
DOLLAR GENERAL #17434
499 LONG STREET
ASHVILLE, OHIO 43103

DOLLAR GENERAL
SHEET TITLE
POWER POLE DETAILS

SPI Client	DATE
16137	04-18-16

SHEET NUMBER
E3



CONDUIT NUMBER	START	END	SIZE	CONDUIT RESPONSIBILITY	*CABLING RESPONSIBILITY
1	RECEIVING AREA	CABLE TRAY	1-1/2"	GENERAL CONTRACTOR	LOW VOLTAGE VENDOR
2	OFFICE VOICE / DATA	OFFICE (HUB)	1"	GENERAL CONTRACTOR	LOW VOLTAGE VENDOR
3	PORT OFFICE (HUB)	CABLE TRAY	1"	GENERAL CONTRACTOR	LOW VOLTAGE VENDOR
4	CENTER OF SALES FLOOR CONNECTION	OFFICE (HUB)	1"	GENERAL CONTRACTOR	LOW VOLTAGE VENDOR
5	SATELLITE	OFFICE (HUB)	1-1/2"	GENERAL CONTRACTOR	LOW VOLTAGE VENDOR

*UNLESS OTHERWISE NOTED, ALL RESPONSIBILITIES SHOULD FOLLOW THIS CHART.

ALL CABLES AT THE OFFICE WILL NEED TO BE WRAPPED IN PHASING TAPE CONSISTENT WITH THE FOLLOWING COLORS:

ALL CABLES AT THE OFFICE WILL NEED TO BE WRAPPED IN PHASING TAPE CONSISTENT WITH THE FOLLOWING COLORS:

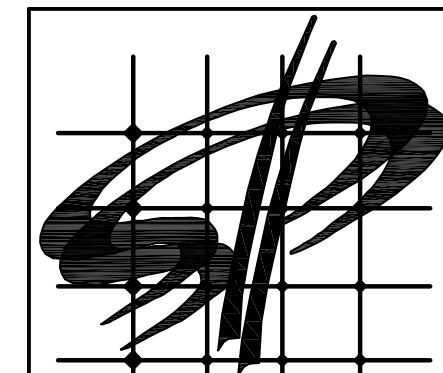
RED TAPE — CASH REGISTER DATA
BLUE TAPE — ELEC. EMS DATA
BROWN TAPE — OFFICE DATA
ORANGE TAPE — COOLER/FREEZER EMS DATA
YELLOW TAPE — PHONE CABLE TO DMARC

Wire Symbols

- RJ-45: 24 GA., 4 TWISTED PAIR, CATEGORY-FIVE (CAT 5) DATA CABLE WITH MODULAR RJ-45 END.
- RJ-11: 24 GA., TWISTED PAIR, CATEGORY-FIVE (CAT 5) DATA CABLE WITH MODULAR RJ-11 END. USE ONLY THE BLUE & WHITE AND SOLID BLUE WIRES. ALL OTHER WIRES TO BE FOLDED BACK AND TAPED TO COAXIAL CABLE WITH RF CONNECTOR

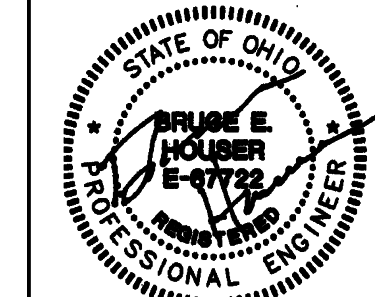
NOTES:

- WHEN LOW VOLTAGE PERMITS ARE REQUIRED, THE GC/DEVELOPER/LLD IS RESPONSIBLE FOR OBTAINING ALL LOW VOLTAGE PERMITS.
- LOW VOLTAGE VENDOR RESPONSIBLE FOR ALL WIRE MANAGEMENT IN CABLE TRAY.
- GC TO PROVIDE AND INSTALL CABLE TRAY AND ALL CONDUIT.



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#	DATE	REVISION
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DOLLAR GENERAL #17434
499 LONG STREET
ASHVILLE, OHIO 43103

TENANT

DOLLAR GENERAL

SHEET TITLE

DATA ROUTING PLAN

SPI Client	DATE
16137	04-18-16

SHEET NUMBER
E4

PANEL: 'A'														
120 / 208 VOLTS 3 PHASE 4 WIRE					PANELBOARD ASSEMBLY RATING 10 KAIC RMS SYMM									
MOUNTING: SURFACE TYPE: NQOD					MAINS: 400 MAIN LUGS ONLY									
OXT. No.	LOAD SERVED	WIRE SIZE	TRIP	POLE	A	KVA LOAD B	C	POLE	TRIP	WIRE SIZE	LOAD SERVED	OXT. No.		
1					3.0/.9			1	20*	10	AUTOMATIC DOOR	2		
3	HVAC - 1	8	40	3		3.0/.4		1	20*	12	TELE. REC.	4		
5							3.0/.3	1	20*	12	EMS PANEL	6		
7					3.0/.9			1	20	10	OUTSIDE VENDING REC.	8		
9	HVAC - 2	8	40	3		3.0/.7		1	20	10	OUTSIDE HVAC RECEPT.	10		
11							3.0/.4	1	20	10	OUTSIDE REC.	12		
13					3.0/-			1	20	-	SPARE	14		
15	HVAC - 3	8	40	3		3.0/-		1	20	-	SPARE	16		
17							3.0/.5	1	20	10	INTERFACE EQUIP.	18		
19					3.0/.5			1	20	10	VSAT HUB EQUIP.	20		
21	HVAC - 4	8	40	3		3.0/1.0		1	20	10	CCTV RECEPT.	22		
23							3.0/.4	1	20	10	SECURITY RECEPT.	24		
25	SPARE	-	20	1	-.6			1	20	10	OFFICE RECEPT.	26		
27	REACH-IN COOLER	8	20*	1		1.2/.6		1	20	10	BREAK ROOM REC.	28		
29	REACH-IN COOLER	8	20*	1			1.2/.4	1	20	10	SALES RECEPT.	30		
31	REACH-IN COOLER	8	20*	1	1.2/.4			1	20	12	SALES RECEPT.	32		
33	REACH-IN COOLER	8	20*	1		1.2/.7		1	20*	10	ICE CREAM PP	34		
35	FREEZER	10	20*	1			1.6/.7	1	20*	10	GATORADE PP	36		
37	WATER HEATER	12	20	1	1.7/.7			1	20*	10	SODA COOLER	38		
39	WATER HEATER	12	20	1		1.7/.7		1	20*	10	SODA COOLER	40		
41	EW	12	20	1			.7/.7	1	20*	10	SODA COOLER	42		
					TOTALS	31.1	31.8				30.6 KVA			
COMMENTS:														
1. PROVIDE PANEL WITH FEED-THRU LUGS TO FEED PANEL 'B'.														
2. * INDICATES BREAKER WITH A LOCK-ON HANDLE.														
3. TOTAL LOADS INCLUDE PANEL 'B' LOADS.														
4. * INDICATES CIRCUIT BREAKER WITH A LOCK-ON HANDLE.														
											TOTAL CONNECTED KVA	93.5		
											TOTAL DEMAND KVA	94.2		
											TOTAL DEMAND AMPS	262A		

PANEL: 'B'

120 / 208 VOLTS 3 PHASE 4 WIRE

PANELBOARD ASSEMBLY RATING 10 KAIC RMS SYMM

MOUNTING: SURFACE TYPE: NQOD

MAINS: 150A MAIN BRKR.

OXT. No.	LOAD SERVED	WIRE SIZE	TRIP	POLE	A	KVA LOAD B	C	POLE	TRIP	WIRE SIZE	LOAD SERVED	OXT. No.
1	EXIT/NIGHT LIGHTS (EMS)	12	20*	1	.6 / .8			1	20	10	CASH REG. BROWN	2
3	RECEIVING LTS. (EMS)	12	20	1		.2 / .8		1	20	8	CASH REG. BROWN	4
5	SALES AREA LTS. (EMS)	12	20	1			1.0 / .8	1	20	10	CASH REG. GREEN (IG)	6
7	SALES AREA LTS. (EMS)	10	20	1	1.0 / .8			1	20	12	CASH REG. GREEN (IG)	8
9	SALES AREA LTS. (EMS)	10	20	1		1.3 / .8		1	20	10	CASH REG. GREEN (IG)	10
11	SALES AREA LTS. (EMS)	10	20	1			1.0 / .8	1	20	10	CASH REG. GREEN (IG)	12
13	SALES AREA LTS. (EMS)	10	20	1	1.0 / .8			1	20	10	CASH REG. BROWN	14
15	SALES AREA LTS. (EMS)	10	20	1		.9 / .8		1	20	12	CASH REG. BROWN	16
17	SPARE (EMS)	10	20	1			- / .7	1	20	-	SPARE	18
19	SPARE (EMS)	10	20	1	- / .4			1	20	-	SPARE	20
21	BREAK RM LTS. (EMS)	10	20	1		.9 / 1.6		2	20*	8	REACH-IN FREEZER	22
23	BUILDING SIGN (EMS)	10	20	1			1.2 / 1.6	2	20*	8	REACH-IN FREEZER	24
25	PYLON SIGN (EMS)	10	20	1	.9 / 1.6			2	20*	8	REACH-IN FREEZER	26
27	BUILDING SIGN (EMS)	10	20	1		.8 / 1.6		2	20*	8	REACH-IN FREEZER	28
29	SPARE (EMS)	10	20	1			- / 1.6	2	20*	8	REACH-IN FREEZER	30
31	EXTERIOR WALLPAKS (EMS)	12	20	1	.5 / 1.6			2	20*	8	REACH-IN FREEZER	32
33	FRONT WALL-PAKS (EMS)	10	20	1		.3 / 1.6		2	20*	8	REACH-IN FREEZER	34
35	SITE LIGHTING (EMS)	10	20	1			1.3 / 1.6	1	20*	10	REACH-IN COOLER	36
37	SITE LIGHTING (EMS)	10	20	1	1.3 / .9			1	20*	10	REACH-IN COOLER	38
39	SPARE (EMS)	10	20	1		- / -		1	20	-	SPARE	40
41	SECURITY LTS. (EMS)	12	20	1			.1 / -	1	20	-	SPARE	42
TOTALS					12.2	11.6	11.7	KVA				

COMMENTS:

1. * INDICATES CIRCUIT BREAKER WITH A LOCK-ON HANDLE.

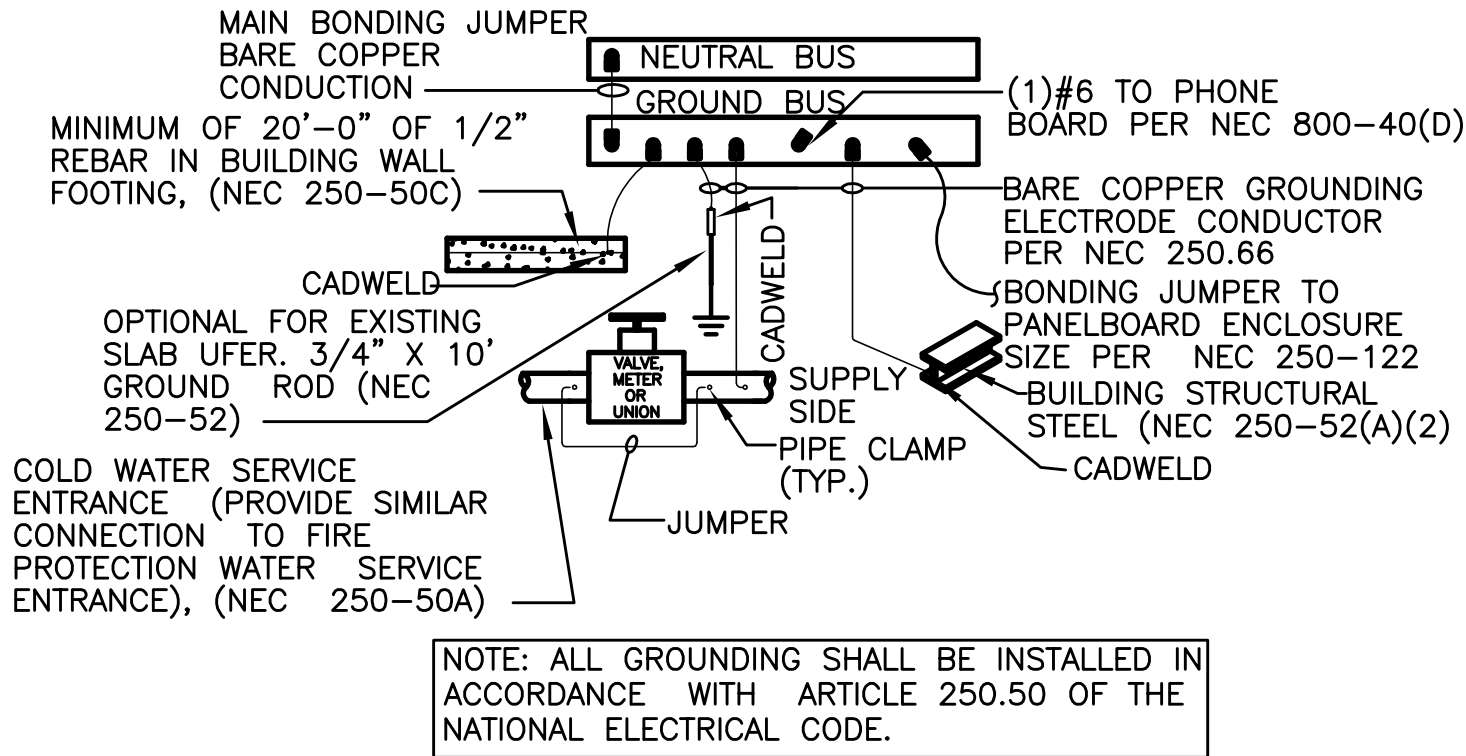
2. -

3. -

TOTAL CONNECTED KVA35.5

TOTAL DEMAND KVA36.8

TOTAL DEMAND AMPS102A

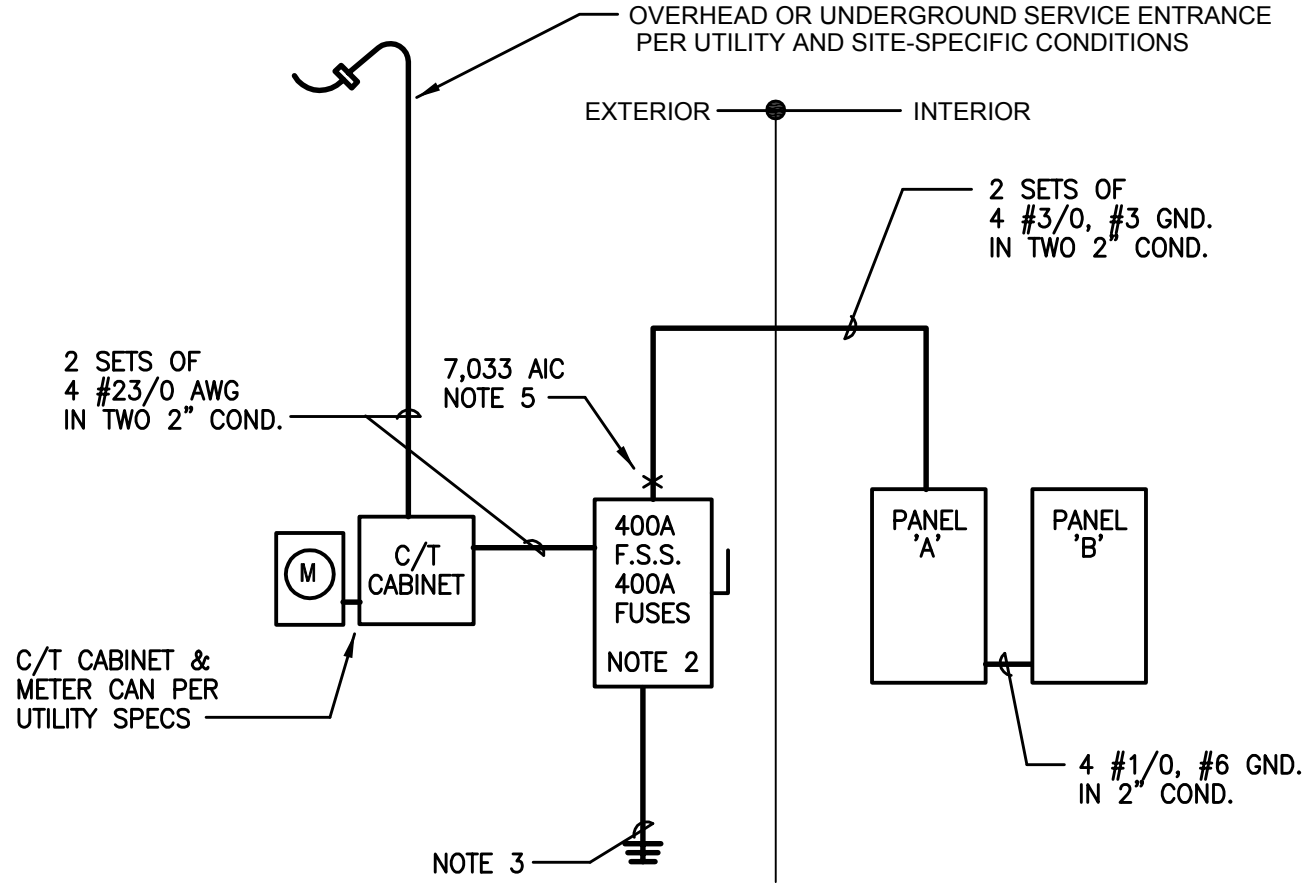


2 GROUNDING DETAIL

NO SCALE

GENERAL NOTES:

- ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH THE 2011 NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE CODES.
- ALL ELECTRICAL MATERIALS, DEVICES, APPLIANCES AND EQUIPMENT SHALL BE LABEL LISTED BY A LOCALLY APPROVED THIRD PARTY TESTING AGENCY.
- ALL ELECTRICAL PERMITS AND INSPECTION FEES SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.
- DRAWINGS ARE DIAGRAMMATIC ONLY AND INDICATE ONLY THE GENERAL ARRANGEMENT. SEE ARCHITECTURAL DRAWINGS FOR EXACT DIMENSIONS.
- ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIALS FOR ONE YEAR EFFECTIVE THE DAY THE PROJECT IS ACCEPTED BY THE OWNER.
- ELECTRICAL CONTRACTOR SHALL MAKE ALL ELECTRICAL POWER CONNECTIONS TO HVAC, PLUMBING AND OTHER EQUIPMENT AS REQUIRED.
- A COMPLETE GROUNDING SYSTEM SHALL BE PROVIDED AND INSTALLED IN ACCORDANCE WITH ARTICLE 250 OF THE NEC, AND AS SHOWN ON THE DRAWINGS.
- ALL CUTTING AND PATCHING OF WALLS AND FLOORS FOR ELECTRICAL EQUIPMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- ALL WIRING SHALL BE INSTALLED IN GALVANIZED RIGID CONDUIT, INTERMEDIATE METAL CONDUIT, OR EMT. EMT SHALL NOT BE USED IN OR UNDER CONCRETE SLABS, OR IN MASONRY WALLS. MC CABLE WILL BE ACCEPTABLE FOR BRANCH CIRCUITS. USE PVC CONDUIT BELOW GRADE.
- CONDUCTORS SHALL BE COPPER RATED AT NOT LESS THAN 600 VOLTS. MINIMUM SIZE SHALL BE NO. 14 AWG UNLESS OTHERWISE NOTED ON THE DRAWINGS. ALL WIRE #8 AWG AND LARGER SHALL BE STRANDED, #10 THRU #12 AWG CONDUCTORS SHALL BE SOLID. USE THE 75°C AMPACITY RATING FOR CONDUCTORS. ALL LUGS SHALL BE LISTED AND LABELED FOR 75°C.
- ALL CONDUCTORS SHALL USE TYPE THWN OR THHN INSULATION.
- PROVIDE A PULLWIRE IN ALL EMPTY CONDUITS.
- PROVIDE A TYPED DIRECTORY IN ALL PANELBOARDS CLEARLY DESCRIBING THE LOCATION OF AND TYPE OF LOAD BEING SERVED FOR ALL CIRCUITS.
- PROVIDE ENGRAVED PHENOLIC NAMEPLATES FOR ALL PANELBOARDS AND DISCONNECT SWITCHES, WHITE LETTERS ON BLACK BACKGROUND.
- FUSES 0 - 600 AMPS SHALL BE UL CLASS "RK-5" LOW PEAK DUAL ELEMENT TIME DELAY WITH 100,000 AMPERE INTERRUPTING RATING AS MANUFACTURED BY BUSS.
- ALL TERMINALS, SPLICING CONNECTORS, LUGS, ETC SHALL BE IDENTIFIED FOR USE WITH THE MATERIAL (CU/AL) OF THE CONDUCTOR AND SHALL BE PROPERLY INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL ELECTRICAL EQUIPMENT FROM FOREIGN MATERIAL DURING CONSTRUCTION (PAINT, SPACKLE, ETC.).
- COMBINING OF CIRCUITS IN CONDUITS SHALL COMPLY WITH NEC REQUIREMENTS FOR CONDUIT FILL. ALLOW FOR DERATING WHERE REQUIRED FOR NUMBER OF CONDUCTORS. ALL PHASE CONDUCTORS THAT SHARE A NEUTRAL SHALL BE FED FROM A COMMON TRIP BREAKER OR SHALL HAVE A COMMON HANDLE TIE TO DISCONNECT ALL PHASE CONDUCTORS SHARING THE NEUTRAL.



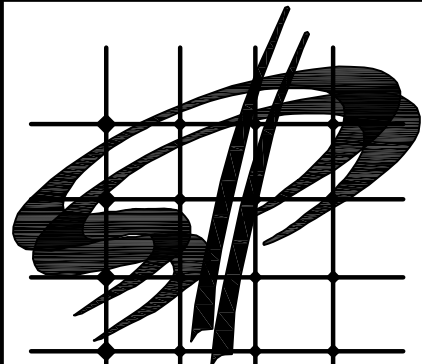
1 POWER RISER DIAGRAM

NO SCALE

NOTES

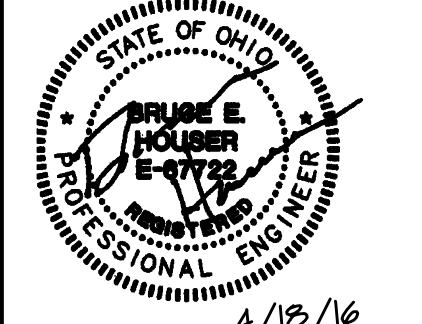
- COORDINATE WITH ELECTRIC UTILITY TO OBTAIN NEW UNDERGROUND 120/208V, 3Ø 4W SERVICE. E.C. SHALL PROVIDE CONDUIT AND METER CAN PER UTILITY SPECIFICATIONS.
- PROVIDE A 400A, 3P, 3R HD FUSED DISCONNECT SWITCH WITH 400 AMP CURRENT LIMITING FUSES. SWITCH SHALL BE U.L. LISTED FOR SERVICE ENTRANCE USE.
- PROVIDE A #1/0 GROUNDING ELECTRODE CONDUCTOR TO UNDERGROUND METAL WATERPIPE AND BUILDING STEEL AND A #4 AWG CONDUCTOR TO A DRIVEN GROUND ROD PER NEC 250-50.
- SEE DETAIL 2/E1 FOR LOCATION AND ARRANGEMENT OF PANELS.
- FAULT CURRENT WILL NOT EXCEED 7,033 AIC AT THIS POINT. E.C. SHALL FIELD VERIFY WITH THE UTILITY AND NOTIFY ENGINEER IF OTHERWISE.

LOAD SUMMARY			
LOAD	CONNECTED KVA	WINTER DEMAND KVA	SUMMER DEMAND KVA
LIGHTS	11.4	14.3	14.3
RECEPTACLES	14.4	12.2	12.2
WATER HTR.	3.3	3.3	3.3
REFRIGERATION	23.6	23.6	23.6
RTUs	36.0	27.0	36.0
MISC. EQ.	4.8	4.8	4.8
TOTAL	93.5	85.2	94.2
		TOTAL DEMAND	94.2 KVA
		TOTAL DEMAND AMPS	262 AMPS



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#	DATE	REVISION
-	-	-

DOLLAR GENERAL #17434
499 LONG STREET
ASHVILLE, OHIO 43103

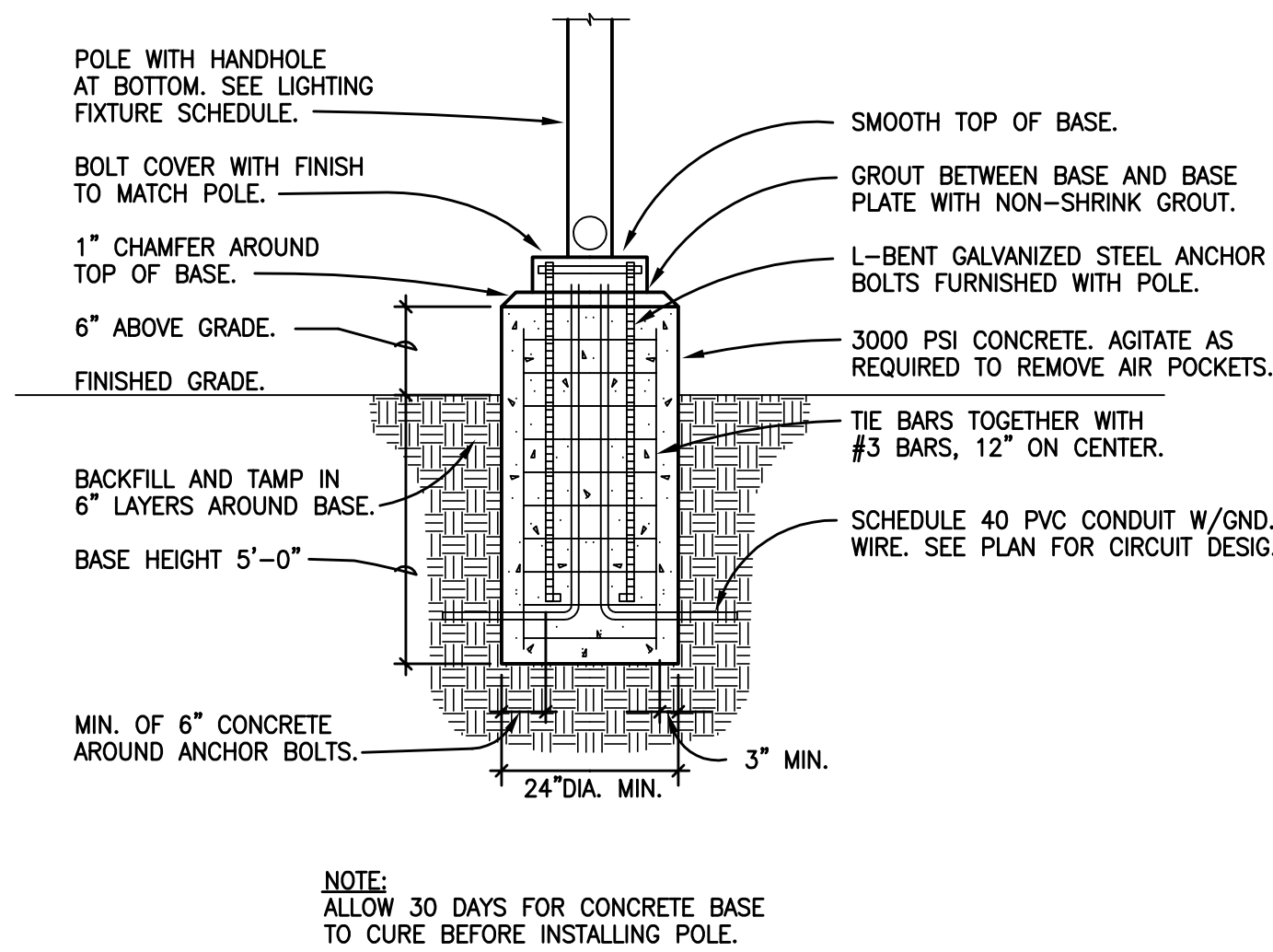
TENANT

DOLLAR GENERAL
SHEET TITLE
PANEL SCHEDULES AND RISER

SPI Client	DATE
16137	04-18-16

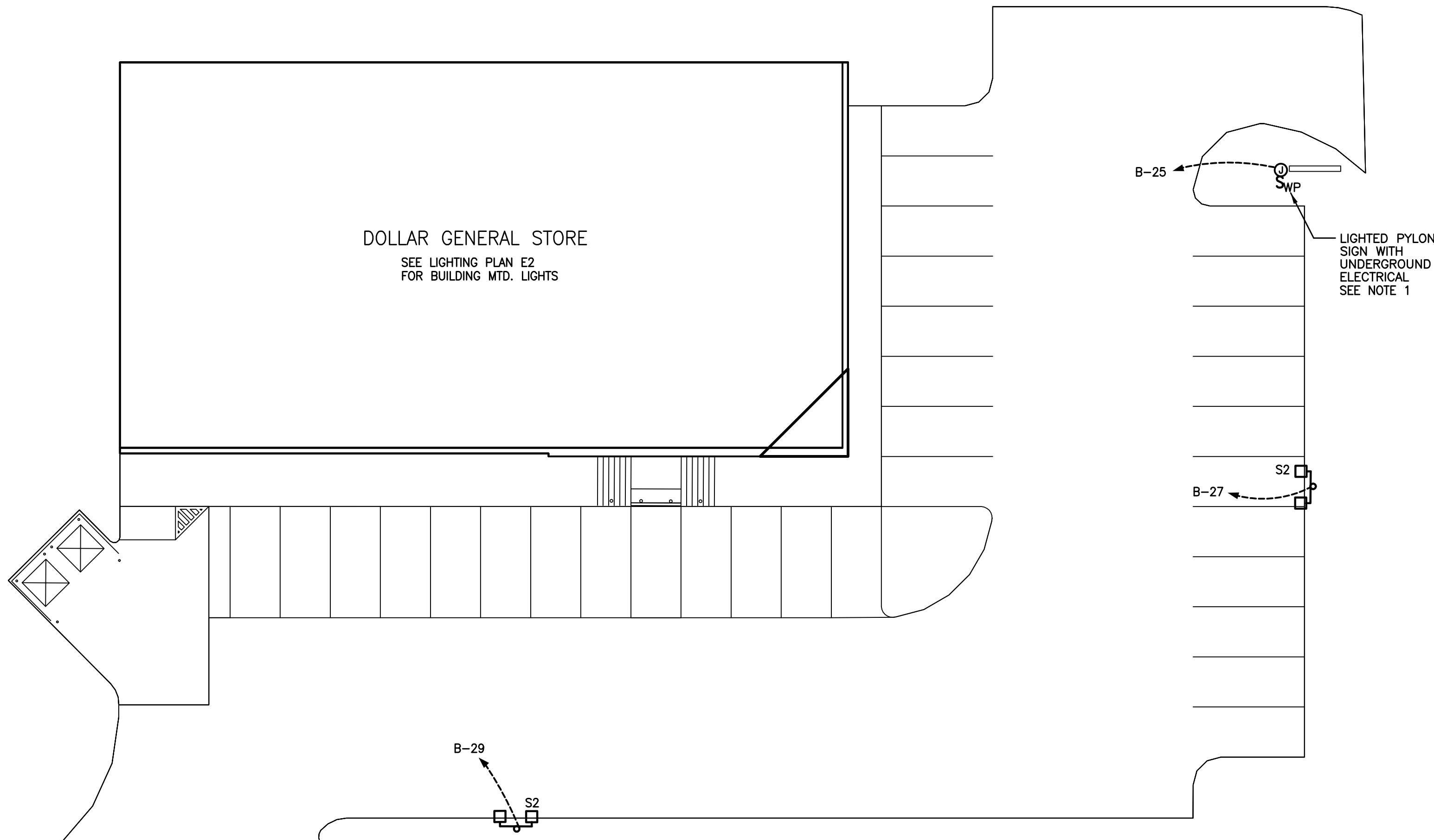
SHEET NUMBER

E5



2 POLE BASE DETAIL
E6 NO SCALE

POLE HT.	BASE HT.	BASE WIDTH	REBAR
25'	5'	2'-0"	4 #5



1 ELECTRICAL SITE PLAN
E6 1/16" = 1'- 0"

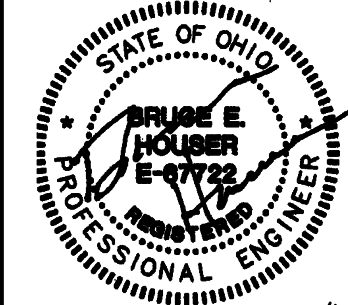
SITE LIGHTING

1. FINAL SIGN CONNECTION AND UNDERGROUND CONDUIT IS LANDLORD RESPONSIBILITY. PROVIDE CONDUIT FROM THE ELECTRICAL PANEL TO LOCATION OF THE PYLON SIGN BASE. BURY CONDUIT UNDER PARKING AREA. THE CONDUIT IS TO BE 1" AND HAVE TWO #10 AWG WIRE WITH #10 GROUND AND A 20-AMP SINGLE POLE BREAKER AT THE PANEL. A TEMPORARY 3' TALL STAKE SHALL BE PROVIDED TO DESIGNATE THE PYLON SIGN LOCATION UNTIL THE SIGN IS PERMANENTLY INSTALLED. REMOVE POST AFTER SIGN IS INSTALLED.
2. SITE / PARKING LOT LIGHTING: PROVIDE ADEQUATE POLE AND/ OR WALL LIGHTING FOR NIGHT VISION AROUND ENTRY, PARKING AND DUMPSTER PAD AREAS.
3. MINIMUM OF TWO FOOT-CANDLES REQUIRED FOR ALL PAVED AREAS EXCLUDING 15' PERIMETER FROM EDGE OF PAVEMENT.
4. ALL SITE LIGHTING AND PYLON CIRCUITS SHALL BE INSTALLED IN SCHEDULE 40 PVC ELECTRICAL CONDUIT, BURIED A MINIMUM OF 24" BELOW FINAL GRADE.
5. SEE LIGHTING PLAN E2 FOR CIRCUITING OF BUILDING MOUNTED LIGHTS.



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ASHVILLE, OHIO 43103

TENANT

DOLLAR GENERAL

SHEET TITLE
ELECTRICAL SITE PLAN

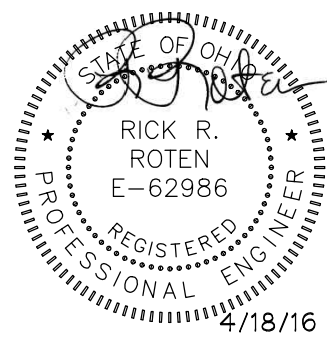
SPI Client	DATE
16137	04-18-16

SHEET NUMBER
E6

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#	DATE	REVISION

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DOLLAR GENERAL

SHEET TITLE
EMS LOW VOLTAGE PLAN

SPI Client	DATE
16137	04-18-16

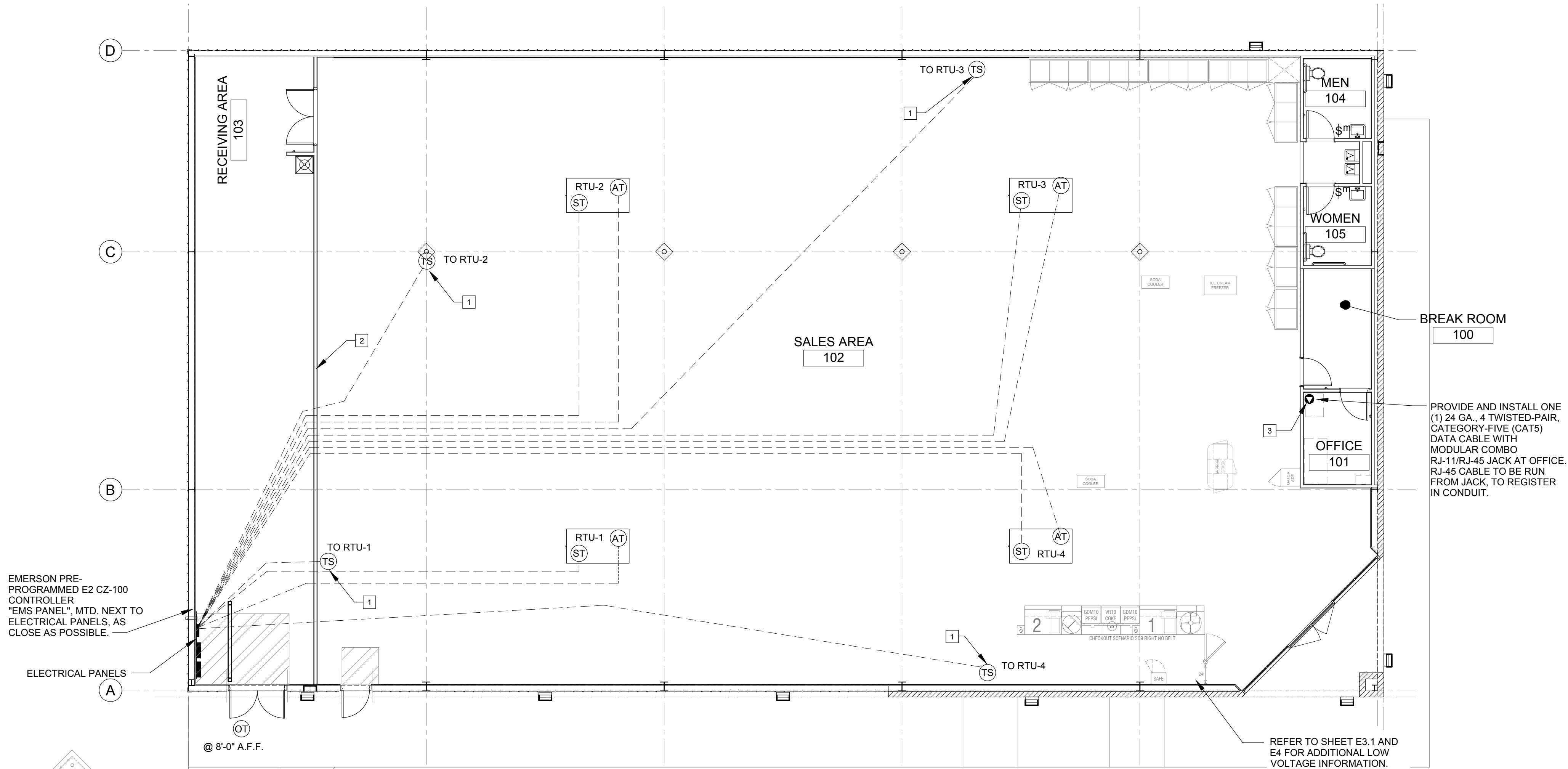
SHEET NUMBER
EMS1

SENSOR PLAN KEYED NOTES

- 1 ALWAYS INSTALL THESE SENSORS AT 8'-0" A.F.F. THE EXACT MOUNTING LOCATION OF THE HVAC SENSORS "TS" MAY VARY DEPENDING ON THE STORE LAYOUT & DUCT CONFIGURATION. REFER TO SITE SPECIFIC MECHANICAL DRAWINGS FOR HVAC ZONED SENSOR MOUNTING LOCATIONS. IF SENSORS ARE MOUNTED ON EXTERIOR WALLS DUE TO DUCT CONFIGURATION, THEY ARE THEN TO BE INSULATED TO PREVENT AIR INFILTRATION. IF ADDITIONAL HVAC UNITS ARE USED, ADD ADDITIONAL TEMPERATURE SENSORS "TS".
- 2 ADD ADDITIONAL FIFTH HVAC UNIT WHEN REQUIRED.
- 3 PHONE LINE #1 - TWO RJ-11 PORTS. ONE (1) LOCATED IN OFFICE W/RJ-45 DATA JACK COMBO AND ONE (1) AT REGISTER. 24 GA. CAT 5, 4-PAIR TWISTED WIRE ONLY. USE BLUE AND BLUE & WHITE WIRES. HOOK TO LINE #1 TERMINAL IN RJ-11 JACK EACH PHONE JACK TO HAVE DEDICATED. SEPARATE HOME RUN TO DMARC. LABEL AS "PHONE" AT THE DESTINATION AND AT DMARC. PHONE COMPANY PROVIDES FINAL HOOK UP TO DMARC ONLY. PHONE LINE #2 - RJ-11 PHONE JACK SUPPLIED AND WIRED BY CONTRACTOR.

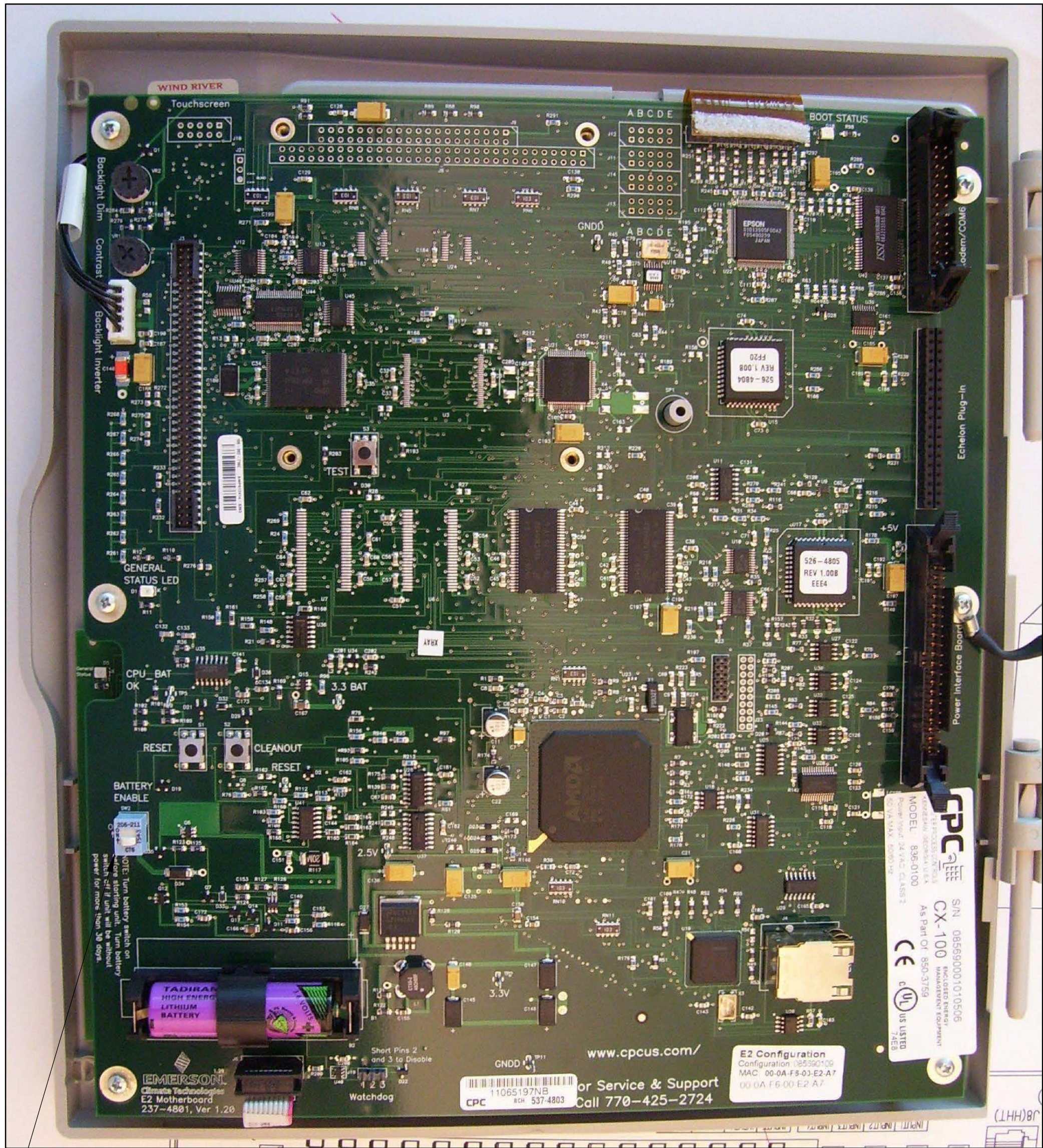
NOTE:
A. REFER TO E1 FOR GENERAL CONTRACTOR RESPONSIBILITIES. E.C. MAY USE CABLE TRAY FOR LOW VOLTAGE CABLES, SEE 2/E2.
B. RUN CONDUIT FROM SENSORS TO BOTTOM OF STRUCTURE.

QTY.	SYMBOL	DESCRIPTION	CABLE TYPE	SUPPLIED BY:	INSTALLED BY:	NOTES
VERIFY	AT	AHU TERMINAL STRIP	8C T-STAT CABLE	EMS SUPPLIER	GENERAL CONTRACTOR	QTY. ONE (1) PER HVAC UNIT.
1	OT	OUTDOOR AIR TEMP MTD. @ 8'-0" A.F.F.	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	QTY. ONE (1) PER RECEIVING ENTRY.
VERIFY	ST	SUPPLY TEMP (501-1121) MTD. IN SUPPLY DUCT	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	QTY. ONE (1) PER HVAC UNIT.
VERIFY	TS	TEMPERATURE SPACE SENSOR (809-6590) MTD. @ 8'-0" A.F.F.	BELDEN 8761 OR EQUIVALENT (22AWG, 2C, STRANDED, SHIELDED)	EMS SUPPLIER	GENERAL CONTRACTOR	QTY. ONE (1) PER HVAC UNIT ZONE.
1	•	RJ-11/RJ-45 DATA JACK, PHONE COMBO.	24 GA., 4 TWISTED-PAIR, CATEGORY-FIVE (CAT 5) DATA CABLE .	GENERAL CONTRACTOR	GENERAL CONTRACTOR	QTY. ONE (1) AT OFFICE COMPUTER CART.
2	\$m	MOTION SENSOR SWITCH.	LEVITON EZ-FIND ODS-10-IDW	GENERAL CONTRACTOR	GENERAL CONTRACTOR	QTY. ONE (1) PER MEN'S RESTROOM. QTY. ONE (1) PER WOMEN'S RESTROOM.



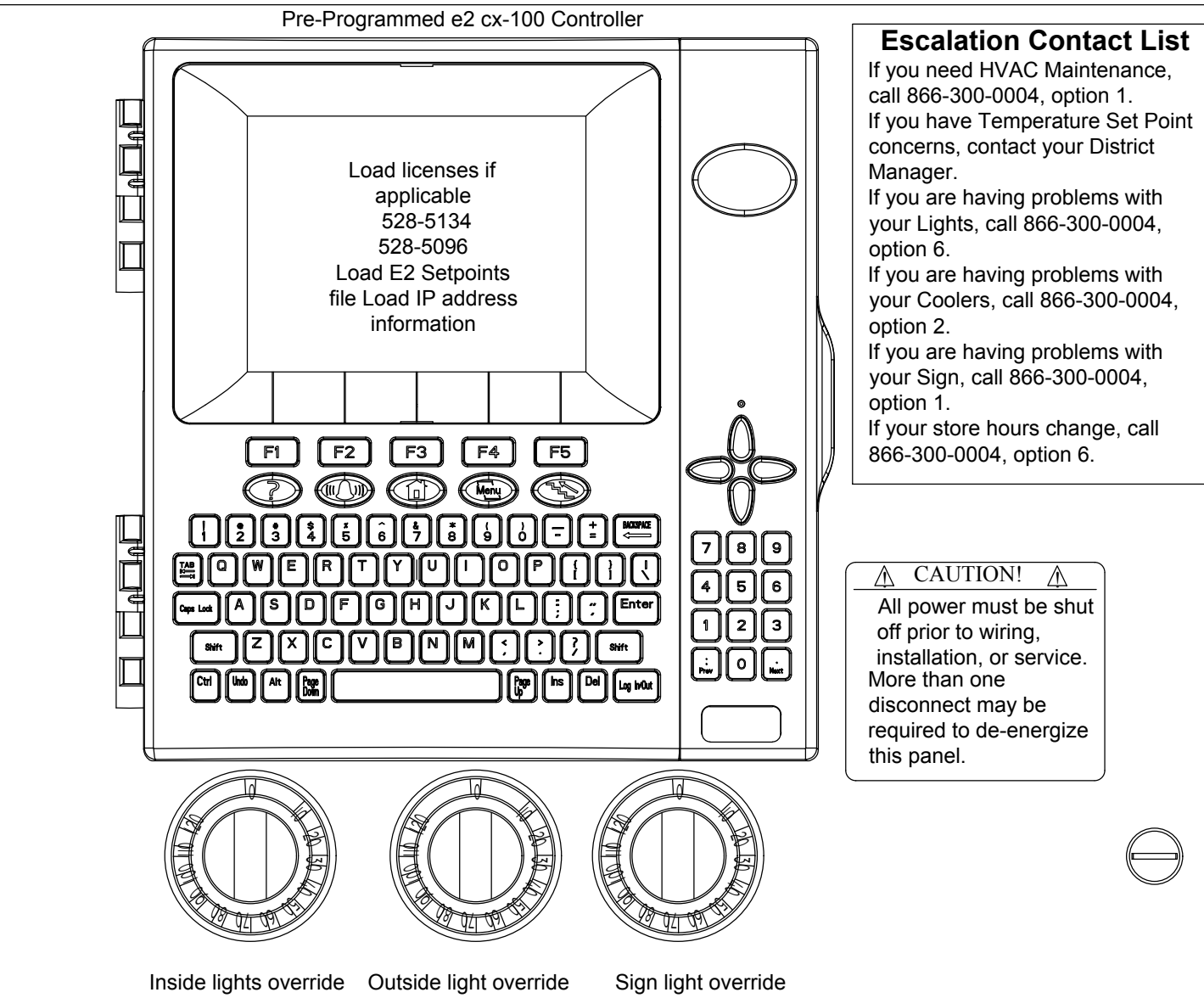
1 EMS1
SCALE: NTS
EMS/LOW VOLTAGE PLAN

NOTE: PLAN IS DIAGRAMIC ONLY!! HOLD CONDUIT TIGHT TO EXPOSED MAIN GIRTS AND RUN AS HIGH AS POSSIBLE ALONG PERIMETER WALLS TO RECEIVING AREA.



GENERAL CONTRACTOR TO ENSURE THAT THE BATTERY ENABLE IS SWITCHED TO THE "ON" POSITION

1 CPU TERMINAL DIAGRAM
SCALE: NTS



Escalation Contact List
If you need HVAC Maintenance, call 866-300-0004, option 1.
If you have Temperature Set Point concerns, contact your District Manager.
If you are having problems with your Lights, call 866-300-0004, option 2.
If you are having problems with your Coolers, call 866-300-0004, option 2.
If you are having problems with your Sign, call 866-300-0004, option 1.
If your store hours change, call 866-300-0004, option 6.

CAUTION!
All power must be shut off prior to wiring, installation, or service. More than one disconnect may be required to de-energize this panel.

Verifying the Time and Date

- From the Home screen.
- 1. The Date is in the upper left corner of the Home screen.
- 2. The Time is in the upper right corner of the Home screen.

HVAC Control Status

- Press the Home screen button.
- Select F1 AHU.
- Using the arrow keys, highlight the appropriated HVAC Unit, select enter.
- From the screen you can view:
 - i. Ctl Temp (Control Temp - The sales floor temp).
 - ii. Values in [] represent the set point we are trying to maintain.
 - iii. Space Temp (Temperature at problem on Sales Floor).
 - iv. Supply Temp (Air Temp leaving AHU).
 - v. Status of Fan/Heat/Cools
- When complete, select the Home button.

Lighting Status

- The status of Store Lights can be viewed in the bottom left corner of the Home page, or by the following:
 - Press the Home screen button.
 - Select F2 Lighting.
 - Highlight the appropriate Lighting Control, then select enter.
 - When complete, select the Home button.

Refrigerated Case Status

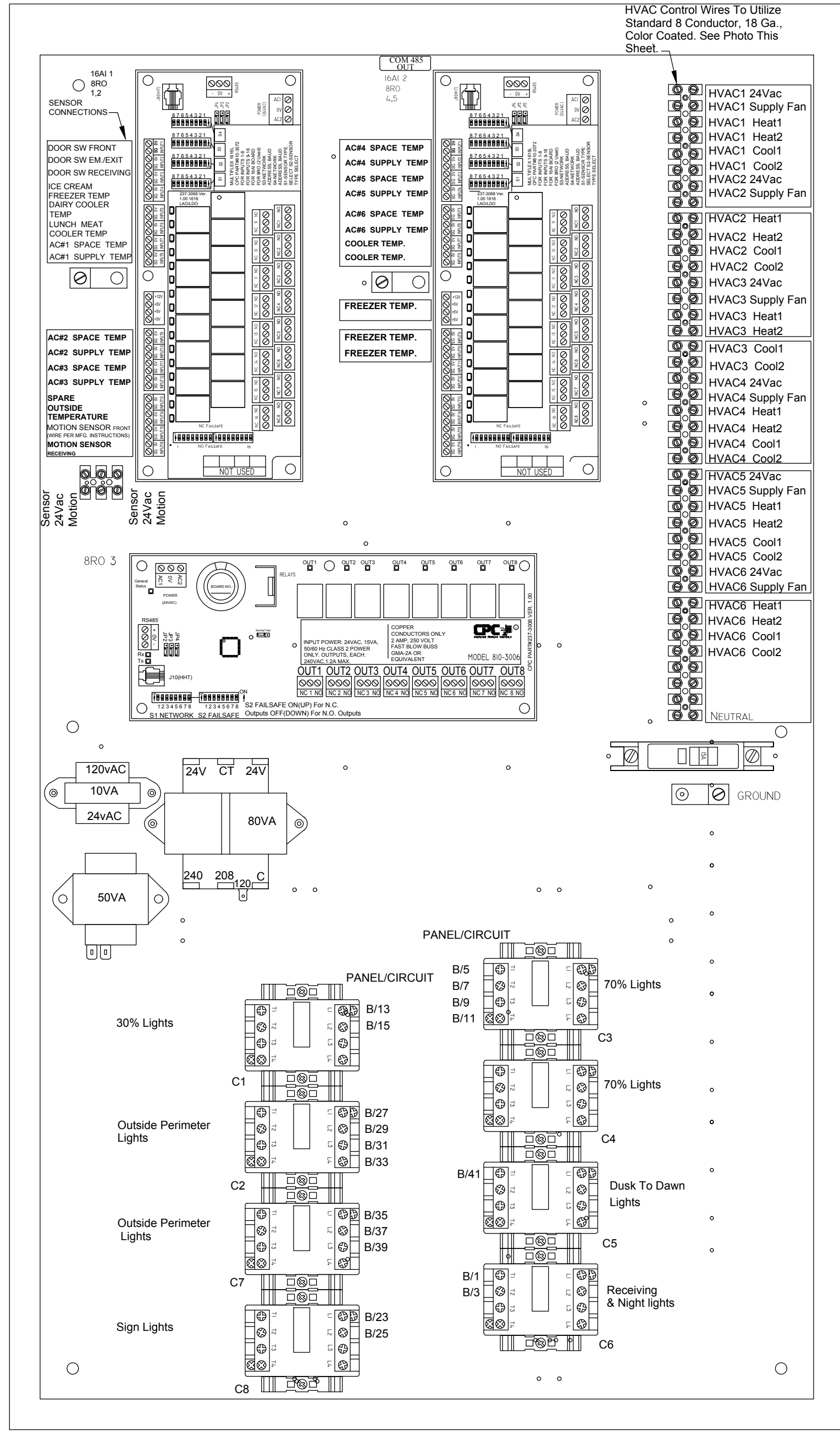
- Case Temperature can be viewed from the Home screen.
- To view a graph of the case temperature:
 - i. Highlight the Temp value and select enter.
 - ii. Select 1 for graph.
- To zoom select F5 Zoom-In.
- (Press F5 Zoom-In as many times as necessary, get to the desired scale/range).
- (Use the left and right arrow keys to move to the time/date range desired).
- When complete, select the Home button.

Alarm Status

- From the Home screen, select Alarm button.
- 1. Date: The date the alarm occurred.
- 2. Time: The time the alarm occurred.
- 3. State: Notice, Alarm or Fail.
 - Notices are general warnings that notify a user of minor errors.
 - Alarms are warnings about important system conditions that need immediate attention.
 - Fails are high priority conditions, warning the user of a controller or device failure.
- 4. Property on Board and Point: The item that has generated the alarm.
- 5. Message: The description of the notice, alarm or fail.
 - a. Using the up or down arrow keys, highlight the appropriate alarm and select F4 Expd. Info.
 - i. Expd. Info: Expanded Information will give the unit & detailed status on the alarm.
 - ii. When finished viewing detailed status, select enter.
- When complete, select the Home button.

NOTE:
EMS SYSTEM SHOULD BE TESTED FOR HVAC OPERATION, INTERIOR LIGHTING, EXTERIOR LIGHTING AND SIGN LIGHTING PRIOR TO CONTRACTOR'S ELECTRICAL POSSESSION DATE. USE OUTSIDE LIGHT AND SIGN LIGHT OVERRIDE FOR EXTERIOR TESTING.

2 PROGRAMMER CONTROLLER
SCALE: NTS



TESTING NOTES

TESTING OF HVAC UNITS THRU EMS PANEL IS ACCOMPLISHED BY SIMPLY WARMING UP OR COOLING DOWN A SPACE TEMPERATURE SENSOR (USING A BLOW DRYER OR ELECTRONIC EQUIPMENT DUSTER AEROSOL) AND WATCH THE FAN, HEAT AND COOL STAGES CYCLE ON AND OFF. THIS REQUIRES TWO PEOPLE AT ALL TIMES...ONE TO WATCH THE SCREEN AND THE OTHER TO WATCH OPERATION OF THE AHU. WHEN COMPLETE, PRESS THE HOME BUTTON TO RETURN TO THE MAIN SCREEN.

EMS GENERAL NOTES

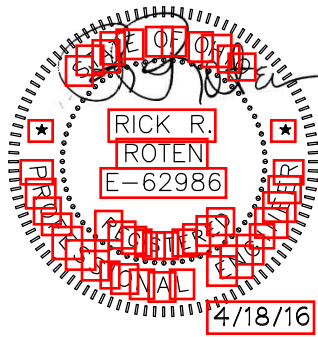
- EMS SUPPLIER NOTE: CUSTOMIZED DOLLAR GENERAL EMS PANEL REQUIRES STORE #, CITY, STATE, ZIP CODE & QTY. OF HVAC UNITS OF THE INSTALL SITE WHEN ORDERING. EMS SYSTEMS INSTALLATION GUIDE WITH PHOTOS IS AVAILABLE ON NATIONAL ACCOUNT WEBSITE. ALL QUESTIONS PERTAINING TO THE EMS PANEL, SYSTEM INSTALLATION & SETUP SHOULD BE DIRECTED TO EMERSON'S DOLLAR GENERAL SUPPORT TEAM AT 770-425-2724.
- ALL SIGN & LIGHTING CIRCUITS MUST BE FED THROUGH THE DESIGNATED CONTACTORS AS NOTED ON THIS PAGE.
- ALL LOW VOLTAGE HVAC & DOOR SENSORS MUST BE CONNECTED TO THE PROPER TERMINAL. 24 GA. SHIELDED (SHIELD MUST BE GROUNDED) CABLE, BELDEN #86412 CONDUCTOR WIRE OR ITS EQUIVALENT IS REQUIRED.
- COOLER & FREEZER HOME RUNS WILL BE TERMINATED AT ALL POINTS BY DOLLAR GENERAL REFRIGERATION DEPARTMENT.

3 CONTROL WIRING DIAGRAM
SCALE: NTS

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DOLLAR GENERAL #17434
499 LONG STREET
ASHVILLE, OHIO 43103

DOLLAR GENERAL

EMS PANEL & CONTROLS

SHEET TITLE

SPI Client	DATE
16137	04-18-16

SHEET NUMBER
EMS2